



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

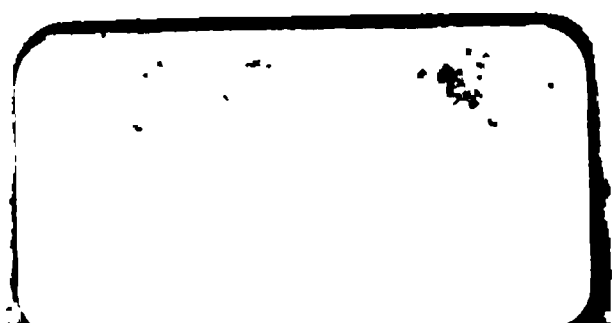
We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

Alm. 939 e. 160



RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE

PLANETS' PLACES

For 1800.

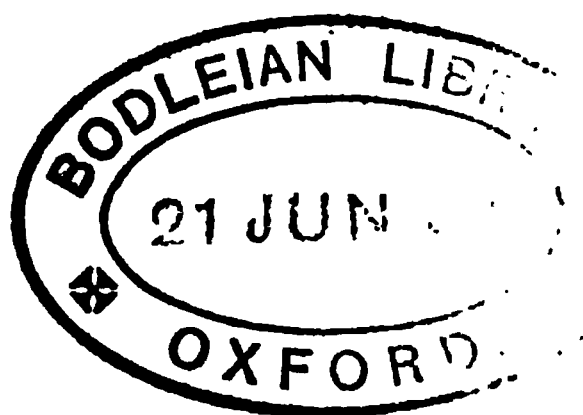
(REVISED AND CORRECTED.)



LONDON:

AND PUBLISHED BY THE ACTING
1883.

Price One Shilling.



RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1800.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.
Price One Shilling.

JANUARY XXXI DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	°	'	°	'	°	'	°	'
1	16	15	0 N 46	1 N 43	0 N 40	18 N 45	0 S 19	23 N 2
4	16	15	0 46	1 44	0 40	18 49	0 19	23 1
7	16	16	0 46	1 45	0 41	18 53	0 18	23 1
10	16	16	0 46	1 45	0 41	18 57	0 18	23 1
13	16	17	0 46	1 46	0 41	19 1	0 17	23 1
16	16	17	0 46	1 46	0 41	19 5	0 17	23 0
19	16	17	0 46	1 47	0 42	19 9	0 16	23 0
22	16	18	0 47	1 48	0 42	19 13	0 16	22 59
25	16	18	0 47	1 49	0 43	19 17	0 15	22 59
28	16	18	0 47	1 51	0 43	19 20	0 15	22 59
31	16	18	0 47	1 53	0 43	19 24	0 15	22 59

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♃ Long.	♃ Lat.	♃ Declin.	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	W	18 43 35	10 W 56 31	23 S 1 24	♄ 45	3 S 14	5 S 3	27 W 27
2	Th	18 47 31	11 57 43	22 56	♄ 59	2 20	0 N 38	27 27
3	F	18 51 28	12 58 54	22 50	♄ 18 58	1 20	6 12	27 27
4	S	18 55 24	14 0 5	22 44	♄ 0 49	0 18	11 30	27 26
5	S	18 59 21	15 1 16	22 37	♄ 12 36	0 N 45	16 21	27 26
6	M	19 3 18	16 2 25	22 30	♄ 24 24	1 46	20 36	27 26
7	Tu	19 7 14	17 3 34	22 23	♄ 6 19	2 42	24 3	27 25
8	W	19 11 11	18 4 42	22 15	♄ 18 24	3 32	26 29	27 25
9	Th	19 15 7	19 5 50	22 6	♄ 0 41	4 13	27 41	27 25
10	F	19 19 4	20 6 58	21 57	♄ 18 13	4 42	27 29	27 24
11	S	19 23 0	21 8 5	21 48	♄ 25 58	4 58	26 51	27 24
1		26 57	22 9 12	21 39	♄ 58	4 59	22 51	27 23
1		30 53	23 10 19	21 28	♄ 10	4 44	18 37	27 22
1		34 50	24 11 25	21 18	♄ 5	4 13	13 24	27 22
1		38 47	25 12 30	21 7	♄ 19 6	3 26	7 30	27 21
1		42 43	26 13 36	20 56	♄ 2 47	2 30	1 11	27 20
1		46 40	27 14 41	20 44	♄ 16 37	1 23	5 S 16	27 20
1		50 36	28 15 46	20 32	♄ 0 36	0 10	11 32	27 19
1		54 33	29 16 51	20 19	♄ 14 42	1 8	4 17	27 18
2		58 29	0 17 55	20 7	♄ 28 56	2 15	22 8	27 17
2		2 26	1 18 58	19 53	♄ 13 16	3 18	25 41	27 16
2		6 22	2 20 1	19 40	♄ 27 38	4 8	27 36	27 15
2		10 19	3 21 4	19 26	♄ 11 58	4 42	27 37	27 14
2		14 16	4 22 5	19 11	♄ 26 10	4 58	26 50	27 13
2		18 12	5 23 6	18 57	♄ 10 9	4 57	22 29	27 12
20		22 9	6 24 6	18 42	♄ 23 48	4 38	17 58	27 11
27	M	20 26	5 7 25	18 26	♄ 7 6	4 4	12 41	27 10
28	Tu	20 30	2 8 26	18 11	♄ 20 2	3 19	7 0	27 8
29	W	20 38 58	9 26 58	17 55	♄ 2 36	2 24	1 11	27 7
30	Th	20 37 55	10 27 53	17 38	♄ 14 51	1 25	4 N 33	27 5
31	F	20 41 51	11 28 48	17 21	♄ 26 52	0 22	10 2	27 3

JANUARY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	0 N 7	20 S 59	3 N 16	15 S 40	3 N 14	20 S 14	3 8 18
4	0 5	21 22	3 15	16 27	3 9	20 17	3 8
7	0 3	21 45	3 12	17 10	2 50	20 35	2 54
10	0 1	22 5	3 8	17 38	2 26	21 2	2 44
13	0 8 1	22 25	3 3	18 31	1 58	21 31	2 35
16	0 3	22 42	2 57	19 8	1 30	22 0	2 25
19	0 5	22 57	2 50	19 41	0 59	22 23	2 15
22	0 7	23 9	2 42	20 7	0 34	22 40	2 6
25	0 10	23 22	2 34	20 35	0 5	22 48	1 56
28	0 13	23 30	2 26	20 53	0 8 17	22 46	1 47
31	0 15	23 39	2 18	21 7	0 39	22 33	1 37

D M	h	♈	♉	♊	♋	♌	Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋
	°	'	°	'	°	'							
1	8 41	24 33	4 42	24 10	27 56				♈		☐	Δ	☐
2	8 37	24 27	5 23	25 13	27 8	♈ ☐ ☿		☐		Δ	*	Δ	
3	8 33	24 20	6 5	26 16	26 38								
4	8 28	24 13	6 47	27 20	26 25	♀ * ☿		Δ		☐			Δ
5	8 24	24 6	7 28	28 24	26 18			Δ		☐			
6	8 20	23 59	8 10	29 28	26 16	♈ Δ h			Δ	*		♈	♈
7	8 15	23 52	8 52	0 33	26 20					*	♈		
8	8 11	23 45	9 34	1 38	26 32					♈			
9	8 6	23 39	10 16	2 44	26 54			☐					♈
10	8 2	23 32	10 58	3 49	27 26								
11	7 57	23 26	11 40	4 55	28 2			♈ *		♈			
12	7 53	23 19	12 22	6 0	28 42				♈			Δ	Δ
13	7 48	23 13	13 4	7 6	29 26					*			
14	7 43	23 7	13 46	8 12	0 14	♀ Δ h						☐	Δ
15	7 39	23 1	14 28	9 18	1 7						☐	☐	
16	7 34	22 56	15 50	10 25	2 6			Δ	♈	*			☐
17	7 29	22 50	15 52	11 32	3 7	☉ Δ ☿		☐				*	*
18	7 24	22 44	16 34	12 39	4 10			☐		☐	Δ		*
19	7 19	22 39	17 17	13 47	5 14				*	*			
20	7 15	22 34	17 59	14 55	6 21								
21	7 10	22 29	18 41	16 3	7 31					Δ	♈	♈	
22	7 5	22 25	19 24	17 11	8 44			☐			♈		
23	7 0	22 20	20 6	18 19	9 58								♈
24	6 55	22 15	20 48	19 27	11 13			Δ		♈			
25	6 50	22 11	21 34	20 36	12 29			♈		♈			
26	6 45	22 7	21 13	21 45	13 47	☉ ♈ h					Δ	*	*
27	6 40	22 4	21 55	22 54	15 6	♈ ♈ 4							
28	6 35	22 0	22 38	24 3	16 27	♀ ♈ 4						☐	*
29	6 30	21 57	20 25	12 17	49	♀ ☉ ♈		♈	Δ	☐	☐		
30	6 25	21 53	25 3	26 21	19 12			*					☐
31	6 20	21 50	25 45	27 30	20 36	♀ ☐ ☿					*	Δ	Δ

FEBRUARY XXVIII DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
1	16	15	0 N 47	1 N 54	0 N 44	19 N 26	0 8 14	22 N 59
4	16	15	0 47	1 57	0 44	19 30	0 14	22 59
7	16	14	0 47	2 0	0 44	19 34	0 13	22 59
10	16	14	0 47	2 2	0 44	19 38	0 13	23 0
13	16	13	0 47	2 4	0 45	19 41	0 12	23 0
16	16	12	0 47	2 7	0 45	19 44	0 12	23 1
19	16	11	0 47	2 9	0 45	19 48	0 11	23 1
22	16	11	0 48	2 11	0 45	19 51	0 11	23 2
25	16	10	0 48	2 14	0 45	19 54	0 10	23 2
28	16	10	0 48	2 17	0 45	19 57	0 10	23 3

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♂ Long.	♂ Lat.	♂ Declin.	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	S	20 45 48	12 ^m 29 38	17 S 5	8 5 43	0 N 41	15 N 4	27 ^m 1
2	S	20 49 45	13 30 29	16 47	20 31	1 42	19 32	26 R 59
3	M	20 53 41	14 31 17	16 30	2 21	2 38	23 14	26 57
4	Tu	20 57 38	15 32 5	16 12	14 17	3 29	26 0	26 56
5	W	21 1 34	16 32 50	15 54	26 26	4 10	27 35	26 54
6	Th	21 5 31	17 33 34	15 35	8 51	4 41	27 50	26 53
7	F	21 9 27	18 34 16	15 17	21 33	4 58	26 39	26 52
8	S	21 13 24	19 34 57	14 58	4 34	5 12	24 0	26 50
9	S	21 17 20	20 35 37	14 39	17 54	4 48	20 2	26 48
10	M	21 21 17	21 36 15	14 19	1 ^m 30	4 18	14 58	26 45
11		14 23	36 51	14 0	15 19	3 32	9 3	26 43
12		10 23	37 27	13 40	29 17	2 34	3 38	26 41
13		7 24	38 1	13 20	13 21	1 25	3 58	26 39
14		3 25	38 34	12 59	27 28	0 11	10 25	26 37
15		0 26	39 5	12 39	11 ^m 36	1 S 4	16 31	26 35
16		56 27	39 35	12 18	25 42	2 15	21 24	26 33
17		53 28	40 5	11 57	9 48	3 18	25 12	26 31
18		50 29	40 32	11 36	23 50	4 8	27 27	26 29
19		46 0	40 59	11 15	7 49	4 44	27 58	26 27
20		43 1	41 24	10 53	21 41	5 2	26 41	26 24
21	F	22 4 39	2 41 48	10 31	5 ^m 24	5 3	23 50	26 21
22	S	22 8 36	3 42 10	10 10	18 56	4 47	19 42	26 19
23	S	22 12 32	4 42 30	9 48	2 14	4 15	14 39	26 16
24	M	22 16 29	5 42 49	9 26	15 15	3 31	9 3	26 14
25	Tu	22 20 25	6 43 6	9 3	27 59	2 36	3 11	26 11
26	W	22 24 22	7 43 41	8 41	10 26	1 36	2 N 40	26 9
27	Th	22 28 18	8 43 34	8 18	22 38	0 31	8 20	26 7
28	F	22 32 15	9 43 45	7 56	4 38	0 N 38	13 36	26 6

MARCH XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	10	0 N 48	2 N 19	0 N 46	19 N 58	0 S 9	23 N 3
4	16	9	0 48	2 22	0 46	20 0	0 9	23 5
7	16	8	0 48	2 26	0 46	20 2	0 8	23 6
10	16	8	0 48	2 29	0 46	20 4	0 8	23 7
13	16	7	0 48	2 32	0 46	20 6	0 8	23 8
16	16	6	0 48	2 34	0 46	20 8	0 8	23 10
19	16	5	0 48	2 37	0 46	20 9	0 7	23 11
22	16	4	0 48	2 39	0 46	29 10	0 7	23 12
25	16	3	0 48	2 42	0 46	20 11	0 6	23 13
28	16	3	0 48	2 46	0 46	20 12	0 6	23 14
31	16	2	0 48	2 49	0 46	20 13	0 5	23 15

D M	D W	Sidereal Time.			☉ Long.			☉ Declin			☽ Long.			☽ Lat.			☽ Declin			♃ Long.		
		H.	M.	S.	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
1	S	22	36	12	10	43	54	7	S	33	16	8	29	1	N	36	18	N	19	26	m	2
2	S	22	40	8	11	44	1	7		10	28		18	2		34	22		19	26	R	0
3	M	22	44	5	12	44	5	6		47	10	□	7	3		26	25		24	25		57
4	Tu	22	48	1	13	44	7	6		24	22		4	4		10	27		23	25		55
5	W	22	51	58	14	44	7	6		1	4	☾	13	4		43	28		7	25		52
6	Th	22	55	54	15	44	5	5		38	16		39	5		4	27		27	25		49
7	F	22	59	51	16	44	0	5		15	29		24	5		10	25		21	25		47
8	S	23	3	47	17	43	53	4		51	12	Ω	33	5		0	21		51	25		44
9	S	23	7	44	18	43	44	4		28	26		4	4		34	17		8	25		41
10	M	23	11	40	19	43	33	4		4	9	m	57	3		51	11		25	25		39
11	Tu	23	15	37	20	43	20	3		41	24		8	2		53	4		59	25		36
12	W	23	19	34	21	43	5	3		17	8	△	33	1		43	1	S	49	25		33
13	Th	23	23	30	22	42	49	2		54	23		4	0		26	8		34	25		31
14	F	23	27	27	23	42	30	2		30	7	m	37	0	S	53	14		54	25		28
15	S	23	31	23	24	42	10	2		6	22		6	2		9	20		23	25		25
16	S	23	35	20	25	41	48	1		43	6	f	28	3		16	24		38	25		23
17	M	23	39	16	26	41	24	1		19	20		39	4		10	27		17	25		21
18	Tu	23	43	13	27	40	59	0		55	3	w	38	4		48	28		11	25		19
19	W	23	47	9	28	40	32	0		32	18		24	5		9	27		18	25		16
20	Th	23	51	6	29	40	3	0		8	1	m	58	5		13	24		49	25		14
21	F	23	55	3	0	r	39 33	0	N	16	15		18	4		59	21		1	25		11
22	S	23	58	59	1	39	0	0		39	28		24	4		30	16		15	25		8
23	S	0	2	56	2	38	26	1		3	11	×	17	3		47	10		50	25		6
24	M	0	6	52	3	37	51	1		27	23		57	2		54	5		4	25		3
25	Tu	0	10	49	4	37	13	1		50	6	r	34	1		54	0	N	48	25		0
26	W	0	14	45	5	36	33	2		14	18		39	0		49	6		34	24		57
27	Th	0	18	42	6	35	50	2		37	0	8	44	0	N	18	12		1	24		54
28	F	0	22	38	7	35	6	3		1	12		39	1		23	16		58	24		51
29	S	0	26	35	8	34	20	3		24	24		29	2		24	21		14	24		49
30	S	0	30	32	9	33	31	3		47	6	□	17	3		19	24		38	24		47
31	M	0	34	28	10	32	39	4		11	18		7	4		5	27		0	24		44

MARCH XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	D. clin.	Lat.	Declin.	Lat.	Declin.	
1	08 39	23 8 5	0 N 29	19 S 21	1 S 55	10 S 26	0 5 5
4	0 42	22 51	0 18	18 39	1 43	8 6	29 55
7	0 44	22 35	0 7	17 58	1 25	5 33	29 46
10	0 47	22 17	0 8 3	17 6	1 0	2 53	29 36
13	0 50	21 56	0 13	16 16	0 34	0 6	29 27
16	0 53	21 34	0 23	15 16	0 1	2 N 43	29 17
19	0 56	21 10	0 32	14 18	0 N 34	5 29	29 8
22	0 59	20 44	0 41	13 10	1 14	8 4	28 58
25	1 1	20 17	0 49	12 5	1 47	10 24	28 49
28	1 3	19 48	0 56	10 51	2 23	12 18	28 39
31	1 6	19 17	1 4	9 29	2 48	13 44	28 30

D M	h		N		S		J		V		M		Mutual		Lunar Aspects.	
	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Aspts.	Aspts.	Aspts.	Aspts.	Aspts.	Aspts.
1	4 14	21 14	4 16	21 16	4 18	21 18	4 20	21 20	4 22	21 22	4 24	21 24	4 26	21 26	4 28	21 28
2	4 11	21 11	4 13	21 13	4 15	21 15	4 17	21 17	4 19	21 19	4 21	21 21	4 23	21 23	4 25	21 25
3	4 8	21 8	4 10	21 10	4 12	21 12	4 14	21 14	4 16	21 16	4 18	21 18	4 20	21 20	4 22	21 22
4	4 6	21 6	4 8	21 8	4 10	21 10	4 12	21 12	4 14	21 14	4 16	21 16	4 18	21 18	4 20	21 20
5	4 2	22 2	4 4	22 4	4 6	22 6	4 8	22 8	4 10	22 10	4 12	22 12	4 14	22 14	4 16	22 16
6	3 59	22 59	4 1	22 1	4 3	22 3	4 5	22 5	4 7	22 7	4 9	22 9	4 11	22 11	4 13	22 13
7	3 56	22 56	4 8	22 8	4 10	22 10	4 12	22 12	4 14	22 14	4 16	22 16	4 18	22 18	4 20	22 20
8	3 54	22 54	4 10	22 10	4 12	22 12	4 14	22 14	4 16	22 16	4 18	22 18	4 20	22 20	4 22	22 22
9	3 51	22 51	4 13	22 13	4 15	22 15	4 17	22 17	4 19	22 19	4 21	22 21	4 23	22 23	4 25	22 25
10	3 48	22 48	4 16	22 16	4 18	22 18	4 20	22 20	4 22	22 22	4 24	22 24	4 26	22 26	4 28	22 28
11	3 45	22 45	4 19	22 19	4 21	22 21	4 23	22 23	4 25	22 25	4 27	22 27	4 29	22 29	4 31	22 31
12	3 42	22 42	4 22	22 22	4 24	22 24	4 26	22 26	4 28	22 28	4 30	22 30	4 32	22 32	4 34	22 34
13	3 40	22 40	4 25	22 25	4 27	22 27	4 29	22 29	4 31	22 31	4 33	22 33	4 35	22 35	4 37	22 37
14	3 37	22 37	4 28	22 28	4 30	22 30	4 32	22 32	4 34	22 34	4 36	22 36	4 38	22 38	4 40	22 40
15	3 35	22 35	4 31	22 31	4 33	22 33	4 35	22 35	4 37	22 37	4 39	22 39	4 41	22 41	4 43	22 43
16	3 33	22 33	4 34	22 34	4 36	22 36	4 38	22 38	4 40	22 40	4 42	22 42	4 44	22 44	4 46	22 46
17	3 31	22 31	4 37	22 37	4 39	22 39	4 41	22 41	4 43	22 43	4 45	22 45	4 47	22 47	4 49	22 49
18	3 29	22 29	4 40	22 40	4 42	22 42	4 44	22 44	4 46	22 46	4 48	22 48	4 50	22 50	4 52	22 52
19	3 27	22 27	4 43	22 43	4 45	22 45	4 47	22 47	4 49	22 49	4 51	22 51	4 53	22 53	4 55	22 55
20	3 26	22 26	4 46	22 46	4 48	22 48	4 50	22 50	4 52	22 52	4 54	22 54	4 56	22 56	4 58	22 58
21	3 24	22 24	4 49	22 49	4 51	22 51	4 53	22 53	4 55	22 55	4 57	22 57	4 59	22 59	5 1	23 1
22	3 23	22 23	4 52	22 52	4 54	22 54	4 56	22 56	4 58	22 58	5 0	22 59	5 2	23 0	5 4	23 2
23	3 21	22 21	4 55	22 55	4 57	22 57	4 59	22 59	5 1	23 0	5 3	23 1	5 5	23 3	5 7	23 5
24	3 20	22 20	4 58	22 58	5 0	23 0	5 2	23 2	5 4	23 4	5 6	23 6	5 8	23 8	5 10	23 10
25	3 19	22 19	5 0	23 0	5 2	23 2	5 4	23 4	5 6	23 6	5 8	23 8	5 10	23 10	5 12	23 12
26	3 18	22 18	5 3	23 3	5 5	23 5	5 7	23 7	5 9	23 9	5 11	23 11	5 13	23 13	5 15	23 15
27	3 17	22 17	5 6	23 6	5 8	23 8	5 10	23 10	5 12	23 12	5 14	23 14	5 16	23 16	5 18	23 18
28	3 16	22 16	5 9	23 9	5 11	23 11	5 13	23 13	5 15	23 15	5 17	23 17	5 19	23 19	5 21	23 21
29	3 15	22 15	5 12	23 12	5 14	23 14	5 16	23 16	5 18	23 18	5 20	23 20	5 22	23 22	5 24	23 24
30	3 14	22 14	5 15	23 15	5 17	23 17	5 19	23 19	5 21	23 21	5 23	23 23	5 25	23 25	5 27	23 27
31	3 14	22 14	5 18	23 18	5 20	23 20	5 22	23 22	5 24	23 24	5 26	23 26	5 28	23 28	5 30	23 30

1

APRIL XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	18 6	19 8 7	18 6	9 8 15	2 N 53	14 N 11	28 r 27
4	1 11	18 86	1 12	7 58	8 8	14 59	28 18
7	1 14	17 59	1 18	6 39	8 10	15 15	28 8
10	1 17	17 23	1 23	5 17	8 0	14 54	27 59
13	1 20	16 46	1 27	3 56	8 37	14 10	27 49
16	1 23	16 7	1 30	2 31	2 0	12 58	27 40
19	1 26	15 28	1 33	1 8	1 17	11 32	27 30
22	1 29	14 48	1 35	0 N 18	0 22	9 48	27 21
25	1 32	14 7	1 37	1 41	0 S 24	8 38	27 11
28	1 35	13 24	1 38	3 15	1 11	7 8	27 3

D M	h	♈	♉	♊	♋	♌	Mutual Aspts.	Lunar Aspects.						
								☉	☿	♈	♉	♊	♋	♌
1	3 Q 14	24	37	9 m 4	8 x 56	0 r 2								
2	3 R 14	24	45	9 47	10 9	0 47	☿ ☐ ☿	☐	*				Δ	
3	3 14	24	53	10 31	11 21	1 20			*	♈				
4	3 D 14	25	1	11 15	12 34	1 40				♈				
5	3 14	25	10	11 59	13 46	1 56		Δ		♈	*			
6	3 14	25	18	12 43	14 59	2 8								
7	3 14	25	27	13 27	16 12	3 R 16								♈
8	3 14	25	36	14 11	17 24	3 16								
9	3 15	25	45	14 55	18 37	3 8								
10	3 15	25	54	15 39	19 50	1 53								♈
11	3 16	26	3	16 23	21 2	1 33							☐	Δ
12	3 17	26	12	17 7	22 15	1 9			*	Δ				
13	3 18	26	21	17 51	23 28	0 41						*		
14	3 19	26	30	18 35	24 40	0 9	☿ ☿ ☿	Δ	☐		♈		☐	Δ
15	3 20	26	40	19 19	25 53	29 r 33								

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Decln.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	54	0 N 47	3 N 14	0 N 47	20 N 4	0 S 2	23 N 27
4	15	54	0 47	3 16	0 47	20 2	0 2	23 27
7	15	53	0 47	3 18	0 47	19 59	0 1	23 27
10	15	52	0 47	3 19	0 47	19 56	0 1	23 27
13	15	51	0 46	3 19	0 47	19 54	0 0	23 27
16	15	51	0 46	3 20	0 47	19 51	0 0	23 27
19	16	50	0 46	3 20	0 47	19 48	0 0	23 27
22	16	50	0 46	3 21	0 47	19 45	0 0	23 26
25	16	49	0 46	3 21	0 47	19 41	0 N 1	23 25
28	16	49	0 46	3 22	0 47	19 37	0 1	23 24
31	16	48	0 46	3 22	0 47	19 33	0 1	23 22
D M	D W	Sidereal Time.	☉ Long.	☉ Declin	♃ Long.	♃ Lat.	♃ Declin	♃ Long.
		H. M. S.	°	'	°	'	°	'
1	Th	2 36 41	10 49 32	15 N 5	3 52 2	5 N 15	24 N 37	23 40
2	F	2 40 38	11 47 39	15 23	15 41	5 120	56	23 39
3	S	2 44 34	12 45 44	15 41	23 41	4 81	16 10	23 37
4	S	2 48 31	13 43 47	15 59	12 7	3 46	10 30	23 35
5	M	2 52 27	14 41 48	16 16	25 59	2 46	4 8	23 33
6	Tu	2 56 24	15 39 47	16 33	10 17	1 34	2 8 38	23 32
7	W	3 0 21	16 37 44	16 50	25 0	0 14	9 28	23 31
8	Th	3 4 17	17 35 40	17 6	10 0	1 3	9 15 55	23 30
9	F	3 8 14	18 33 34	17 22	25 22	2 27	21 28	23 29
10	S	3 12 10	19 31 27	17 38	10 24	3 35	25 35	23 28
11	S	3 16 7	20 29 18	17 54	25 27	4 28	27 51	23 27
12	M	3 20 3	21 27 6	18 9	10 13	5 128	4	23 26
13	Tu	3 24 0	22 24 57	18 24	24 36	5 14	26 23	23 25
14	W	3 27 56	23 22 45	18 38	8 32	5 9	28 7	23 25
15	Th	3 31 53	24 20 31	18 53	22 1	4 46	18 41	23 24
16	F	3 35 50	25 18 17	19 7	5 6	4 9	13 31	23 23
17	S	3 39 46	26 16 2	19 20	17 48	3 20	7 54	23 23
18	S	3 43 43	27 13 45	19 34	0 12	2 28	2 7	23 22
19	M	3 47 39	28 11 28	19 47	12 22	1 21	3 N 39	23 22
20	Tu	3 51 36	29 9 10	20 0	24 23	0 16	9 13	23 21
21	W	3 55 32	0 6 50	20 12	6 16	0 N 49	14 24	23 21
22	Th	3 59 29	1 4 30	20 24	18 6	1 51	19 1	23 20
23	F	4 3 25	2 2 8	20 36	29 54	2 49	22 54	23 20
24	S	4 7 22	3 59 45	20 47	11 43	3 39	25 50	23 19
25	S	4 11 19	3 57 21	20 58	23 35	4 10	27 38	23 19
26	M	4 15 15	4 54 56	21 0	0 72	4 49	28 10	23 19
27	Tu	4 19 12	5 52 30	21 15	5 6	5 6	27 22	23 18
28	W	4 23 8	6 50 2	21 15	5 10	5 10	25 10	23 18
29	Th	4 27 6	7 47 33	21 2	4 59	21 56	23 D 18	23 18
30	F	4 31 1	8 45 2	21 11	4 38	17 33	23 18	23 18
31	S	4 34 58	9 42 30	21 18	3 54	12 16	23 18	23 18

MAY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	° ' '	° ' '	° ' '	° ' '	° ' '	° ' '	
1	18 38	12 S 39	18 38	4 N 31	18 52	6 N 45	26 r 51
4	1 41	11 55	1 37	6 5	2 24	6 21	26 41
7	1 44	11 9	1 37	7 18	2 51	6 21	26 32
10	1 47	10 23	1 35	8 40	3 7	6 40	26 22
13	1 49	9 37	1 33	10 0	3 18	7 21	26 13
16	1 52	8 50	1 30	11 16	3 19	8 23	26 3
19	1 55	8 2	1 27	12 34	3 17	9 27	25 54
22	1 58	7 14	1 23	13 46	3 7	10 50	25 44
25	2 0	6 25	1 18	14 58	2 52	12 21	25 35
28	2 2	5 37	1 12	16 3	2 33	14 2	25 25
31	2 5	4 48	1 7	17 13	2 8	15 42	25 16

D M	h		♄		♂	♀	♂	Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌
	°	'	°	'	°	'	°	'							
1	3 53	29 25	1 15	19 21	1 15	19 21	44				♈				
2	3 56	29 36	1 45	16 31	21 44				☐					♈	♈
3	3 59	29 47	2 29	17 41	21 51								*	♈	
4	4 2	29 58	3 13	18 57	22 5				Δ						
5	4 5	0 10	3 57	20 10	22 23					♈		☐			
6	4 8	0 21	4 41	21 22	22 44							*			
7	4 12	0 33	5 24	22 36	23 7								Δ		♈
8	4 15	0 44	6 8	23 49	23 34							☐		Δ	♈
9	4 19	0 56	6 51	25 2	24 7				♈	*					
10	4 22	1 8	7 35	26 15	24 47							Δ		☐	
11	4 26	1 20	8 18	27 28	25 30					☐			♈		Δ
12	4 30	1 32	9 2	28 41	26 15									*	
13	4 34	1 44	9 45	29 54	27 2				Δ	Δ					☐
14	4 39	1 56	10 29	1 7	27 53	☉ Δ ♈					♈				
15	4 42	2 8	11 12	2 20	28 48	♀ * ♄			☐						
16	4 47	2 20	11 56	3 33	29 48								Δ		*
17	4 51	2 32	12 39	4 46	0 50	♀ ☐ ♈				♈				♈	
18	4 55	2 44	13 23	5 59	1 54				*			Δ	☐		
19	5 0	2 56	14 6	7 12	3 1	♂ * ♄									
20	5 5	3 8	14 49	8 25	4 11										
21	5 9	3 21	15 33	9 38	5 24	♂ ☐ ♈					☐	*		♈	♈
22	5 14	3 33	16 16	10 51	6 41									*	
23	5 18	3 46	17 0	12 4	8 0				♈	Δ	*				
24	5 23	3 58	17 49	13 17	9 21										
25	5 28	4 11	18 26	14 30	10 44					☐				☐	
26	5 33	4 23	19 9	15 43	12 10								♈		
27	5 38	4 36	19 52	16 56	13 39	☉ * ♈								Δ	*
28	5 43	4 49	20 35	18 9	15 11					*	♈				
29	5 48	5 2	21 18	19 22	16 45				*						☐
30	5 53	5 15	22 1	20 35	18 22									☐	
31	5 58	5 28	22 44	21 48	20 1				☐			*			

JUNE XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	28 6	48 33	18 6	17 N29	18 58	16 N18	25 r 13
4	2 9	3 45	1 0	18 26	1 29	18 11	25 3
7	2 11	2 56	0 54	19 22	0 57	19 48	24 54
10	2 13	2 8	0 48	20 8	0 18	21 30	24 44
13	2 16	1 19	0 41	20 56	0 N 9	22 47	24 35
16	2 18	0 33	0 34	21 46	0 39	23 55	24 25
19	2 20	0 N16	0 27	22 11	1 7	24 34	24 16
22	2 22	1 4	0 20	22 40	1 27	24 51	24 6
25	2 24	1 49	0 13	23 2	1 48	24 44	23 57
28	2 26	2 37	0 6	23 20	1 52	24 12	23 47

D M	h	♄	♂	♀	♅	Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌
	° ' "	° ' "	° ' "	° ' "	° ' "								
1	6 Ω 4	5 ♄ 41	23 * 26	23 ♂ 2	21 ♂ 42	♂ ♀ ♄		♂				♂	Δ Δ
2	6 10	5 54	24 9	24 15	23 25	♀ Δ ♄			*	□			
3	6 16	6 7	24 51	25 28	25 12	♂ Δ ♄	Δ						
4	6 21	6 20	25 34	26 41	27 2	♂ * ♂			□	Δ			
5	6 27	6 33	26 16	27 54	28 54	♂ ♂ ♀		*					
6	6 33	6 26	26 59	29 7	0 □ 47				Δ			Δ	♂ ♂
7	6 38	6 59	27 41	0 □ 21	2 42		♂	□					
8	6 44	7 12	28 23	1 34	4 40					♂	□		
9	6 50	7 25	29 5	2 47	6 40	♂ * h		Δ					
10	6 56	7 38	29 48	4 1	8 43				♂		*	Δ	Δ
11	7 2	7 51	0 r 30	5 14	10 47		Δ						
12	7 8	8 4	1 12	6 27	12 53								□
13	7 14	8 18	1 54	7 41	15 1	♀ * h				Δ			□
14	7 20	8 31	2 36	8 54	17 10	☉ □ ♄	□	♂				♂	*
15	7 27	8 44	3 18	10 7	19 20				Δ	□	♂	*	
16	7 33	8 58	3 59	11 21	21 31		*						*
17	7 40	9 11	4 41	12 34	23 42	♂ □ ♄				□	*		
18	7 46	9 24	5 23	13 47	25 54								
19	7 53	9 38	6 4	15 1	28 6	☉ ♂ ♀		Δ				*	
20	8 0	9 51	6 45	16 14	0 ♄ 17				*		*		
21	8 6	10 5	7 26	17 27	2 28							♂	♂
22	8 13	10 18	8 7	18 41	4 38	♂ Δ h	♂	□			♂	□	♂
23	8 19	10 32	8 48	19 54	6 47								
24	8 26	10 45	9 29	21 7	8 55	♂ □ ♂		*		♂		Δ	
25	8 33	10 59	10 10	22 21	11 1	♂ ♂ ♄			♂				
26	8 39	11 12	10 50	23 34	13 6	♀ □ ♄						*	*
27	8 46	11 26	11 31	24 47	15 9	♂ □ ♄	*						
28	8 53	11 39	12 11	26 1	17 11			♂		*			*
29	9 0	11 53	12 52	27 14	19 11							□	
30	9 7	12 6	13 32	28 27	21 9		□		*	□	♂		

JULY XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Decl'n.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	45	0 N 44	3 N 11	0 N 48	18 N 44	0 N 4	22 N 58
4	15	45	0 44	3 8	0 48	18 39	0 4	22 54
7	15	45	0 44	3 5	0 48	18 33	0 5	22 51
10	15	46	0 44	3 3	0 48	18 27	0 5	22 47
13	15	46	0 44	3 0	0 49	18 22	0 6	22 43
16	15	46	0 44	2 58	0 49	18 16	0 6	22 39
19	15	46	0 44	2 56	0 49	18 9	0 6	22 34
22	15	46	0 44	2 54	0 49	18 3	0 6	22 29
25	15	47	0 44	2 51	0 49	17 57	0 7	22 24
28	15	47	0 44	2 48	0 49	17 51	0 7	22 19
31	15	47	0 44	2 44	0 49	17 45	0 7	22 14

D M	D W	Siderea' Time.	☉ Long.	☉ Declin	♂ Long.	♂ Lat.	♂ Declin	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Tu	6 37 11	9 ⁵⁵ 18 29	23 N 8	28 ³² 32	0 S 22	11 S 18	23 ⁴² 42
2	W	6 41 8	10 15 40	23 4	12 ^m 50	1 36	17 14	23 44
3	Th	6 45 3	11 12 51	23 0	27 28	2 46	22 18	23 46
4	F	6 49 1	12 10 2	22 55	12 ^f 21	3 45	26 1	23 48
5	S	6 52 57	13 7 12	22 49	27 23	4 29	27 56	23 50
6	S	6 56 54	14 4 23	22 43	12 ^{vr} 24	4 55	27 47	23 52
7	M	7 0 51	15 1 34	22 37	27 15	5 1	25 39	23 54
8	Tu	7 4 47	15 58 45	22 31	11 ^m 48	4 46	21 51	23 56
9	W	7 8 44	16 55 56	22 24	25 55	4 15	16 53	23 58
10	Th	7 12 41	17 53 8	22 16	9 ^x 34	3 29	11 13	24 0
11	F	7 16 37	18 50 20	22 8	22 44	2 34	5 15	24 2
12	S	7 20 33	19 47 33	22 0	5 ^r 29	1 33	0 N 46	24 5
13	S	7 24 30	20 44 46	21 52	17 53	0 28	6 35	24 7
14	M	7 28 26	21 42 1	21 43	0 ^x 0	0 N 36	12 2	24 9
15	Tu	7 32 23	22 39 16	21 34	11 55	1 37	16 58	24 12
16	W	7 36 20	23 36 32	21 24	23 45	2 34	21 13	24 14
17	Th	7 40 16	24 33 48	21 14	5 [□] 33	3 24	24 36	24 16
18	F	7 44 13	25 31 5	21 4	17 25	4 5	26 56	24 18
19	S	7 48 9	26 28 23	20 53	29 23	4 36	28 4	24 20
20	S	7 52 6	27 25 42	20 42	11 ⁵⁵ 29	4 55	27 52	24 22
21	M	7 56 2	28 23 1	20 31	23 46	5 0	26 18	24 24
22	Tu	7 59 59	29 20 22	20 19	6 ^Ω 14	4 51	23 26	24 26
23	W	8 3 55	0 ^Ω 17 42	20 7	18 53	4 28	19 25	24 29
24	Th	8 7 52	1 15 3	19 54	1 ^m 44	3 51	14 28	24 32
25	F	8 11 49	2 12 25	19 41	14 45	3 2	8 48	24 34
26	S	8 15 45	3 9 47	19 28	27 58	2 2	2 40	24 36
27	S	8 19 42	4 7 9	19 15	11 ³² 24	0 54	3 S 42	24 39
28	M	8 23 38	5 4 32	19 1	25 3	0 S 18	9 59	24 41
29	Tu	8 27 35	6 1 56	18 47	8 ^m 56	1 31	15 55	24 44
30	W	8 31 31	6 59 20	18 33	23 4	2 39	21 7	24 47
31	Th	8 35 28	7 56 44	18 18	7 ^f 26	3 38	25 9	24 51

JULY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	28 28	3 N 20	0 N 2	23 N 80	1 N 53	23 N 21	23 38
4	2 29	4 4	0 9	23 36	1 50	22 14	23 28
7	2 31	4 49	0 16	23 33	1 39	20 53	23 19
10	2 32	5 34	0 23	23 25	1 24	19 23	23 9
13	2 33	6 13	0 30	23 11	1 5	17 47	23 0
16	2 35	6 54	0 36	22 48	0 41	16 6	22 50
19	2 36	7 34	0 43	22 24	0 15	14 23	22 40
22	2 37	8 12	0 47	21 50	0 8	12 31	22 31
25	2 37	8 51	0 54	21 14	0 47	11 0	22 21
28	2 38	9 27	0 59	20 26	1 22	9 26	22 12
31	2 38	10 0	1 3	19 37	1 58	7 59	22 2

D M	h		N		♂		♀		♀		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋
1	9 14	12 20	14 12	29 42	23 56	0 0	25 0	25 0	25 0	25 0	☿ * ♈	Δ		☐	Δ		Δ
2	9 21	12 33	14 58	0 55	25 0	25 0	25 0	25 0	25 0	25 0		Δ	*	☐	Δ		Δ
3	9 28	12 47	15 32	3 9	26 52	26 52	26 52	26 52	26 52	26 52			*			Δ	
4	9 35	13 0	16 11	3 23	28 41	28 41	28 41	28 41	28 41	28 41	☉ ☿ ♈	☐	Δ				
5	9 42	13 14	16 51	4 36	0 23	0 23	0 23	0 23	0 23	0 23				☐	Δ		
6	9 49	13 27	17 31	5 50	2 14	2 14	2 14	2 14	2 14	2 14		☿	Δ		☿	☐	☿
7	9 57	13 41	18 10	7 4	3 59	3 59	3 59	3 59	3 59	3 59			Δ				☿
8	10 4	13 54	18 49	8 17	5 42	5 42	5 42	5 42	5 42	5 42				☿		*	☿
9	10 11	14 8	19 28	9 31	7 22	7 22	7 22	7 22	7 22	7 22					Δ	*	Δ
10	10 19	14 21	20 7	10 45	8 58	8 58	8 58	8 58	8 58	8 58							
11	10 26	14 35	20 45	11 58	10 34	10 34	10 34	10 34	10 34	10 34	☿ ☿ ♈	Δ	☿				
12	10 33	14 48	21 24	12 12	8	8	8	8	8	8		☐		Δ	☐	☿	Δ
13	10 41	15 2	22 2	14 26	13 40	13 40	13 40	13 40	13 40	13 40	☿ ☿ ♈			☐	☿	☐	Δ
14	10 48	15 15	22 40	15 39	16 10	16 10	16 10	16 10	16 10	16 10				☐	*		
15	10 56	15 29	23 18	16 53	16 38	16 38	16 38	16 38	16 38	16 38							
16	11 3	15 42	23 55	18 7	4	4	4	4	4	4	☉ * ♈	*	Δ			*	☐
17	11 11	15 56	24 33	19 20	19 28	19 28	19 28	19 28	19 28	19 28	☉ ☐ ☿			*			*
18	11 18	16 9	25 120	34 20	49	49	49	49	49	49							*
19	11 26	16 23	25 48	21 48	23 8	23 8	23 8	23 8	23 8	23 8		☐			☿	*	
20	11 34	16 36	25 25	23 1	23 25	23 25	23 25	23 25	23 25	23 25							
21	11 41	16 50	27 2	24 19	24 40	24 40	24 40	24 40	24 40	24 40	☿ * ♈	☿	*			☐	☿
22	11 49	17 3	27 88	25 39	25 58	25 58	25 58	25 58	25 58	25 58				☿			
23	11 56	17 17	28 15	26 53	27 4	27 4	27 4	27 4	27 4	27 4							
24	12 4	17 30	28 59	28 7	28 12	28 12	28 12	28 12	28 12	28 12						Δ	☿
25	12 12	17 43	29 28	29 11	29 16	29 16	29 16	29 16	29 16	29 16	☿ ☐ ☿				*		
26	12 19		7 0	4 0	25 0	25 0	25 0	25 0	25 0	25 0	☿ Δ ☿	*	☿			*	
27	12 27		0 0	40 1	39 1	39 1	39 1	39 1	39 1	39 1				*	☐		
28	12 34		3 1	15 2	53 2	53 2	53 2	53 2	53 2	53 2						☿	
29	12 42		6 1	50 4	7 3	7 3	7 3	7 3	7 3	7 3		☐	*	☐		☐	*
30	12 45		9 2	25 5	21 4	21 4	21 4	21 4	21 4	21 4			*		Δ		
31	12 5		2 2	59 6	36 4	36 4	36 4	36 4	36 4	36 4		Δ		Δ		Δ	☐

AUGUST XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	47	0 N 43	2 N 41	0 N 50	17 N 42	0 N 7	22 N 12
4	15	47	0 43	2 38	0 50	17 35	0 7	22 5
7	15	48	0 43	2 34	0 50	17 29	0 8	22 3
10	15	48	0 43	2 29	0 50	17 23	0 8	21 57
13	15	49	0 43	2 25	0 51	17 17	0 9	21 50
16	15	49	0 43	2 22	0 51	17 10	0 9	21 44
19	15	50	0 43	2 19	0 51	17 3	0 9	21 39
22	15	50	0 43	2 15	0 51	16 56	0 9	21 33
25	15	51	0 43	2 10	0 52	16 50	0 10	21 27
28	15	51	0 43	2 5	0 52	16 44	0 10	21 21
31	15	52	0 43	2 1	0 52	16 38	0 10	21 15

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♂ Long.	♂ Lat.	♂ Declin.	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	F	8 39 24	8 54 9	18 N 3	21 7 58	4 3 24	27 3 37	24 4 54
2	S	8 43 21	9 51 35	17 48	6 47 38	4 53 28	28 10	24 57
3	S	8 47 18	10 49 1	17 32	21 17	5 2 26	26 45	25 0
4	M	8 51 14	11 46 29	17 17	5 44 49	4 52 23	23 33	25 3
5	Tu	8 55 11	12 43 57	17 0	20 7	4 24 18	18 58	25 6
6	W	8 59 7	13 41 26	16 44	4 4 4	3 41 13	13 27	25 9
7	Th	9 3 4	14 38 57	16 27	17 39	3 46 7	7 26	25 12
8	F	9 7 0	15 36 29	16 11	0 47	1 43 1	16	25 15
9	S	9 10 57	16 34 2	15 53	13 32	0 37 4	N 47	25 18
10	S	9 14 54	17 31 36	15 36	25 57	0 N 29	10 29	25 21
11	M	9 18 50	18 29 18	15 18	8 5	1 33 15	41	25 25
12	Tu	9 22 47	19 26 50	15 0	30 3	2 31 20	12	25 28
13	W	9 26 43	20 24 29	14 42	1 53	3 23 23	52	25 31
14	Th	9 30 40	21 22 10	14 24	13 44	4 5 26	32	25 35
15	F	9 34 36	22 19 53	14 5	25 38	4 34 28	1	25 38
16	S	9 38 33	23 17 37	13 46	7 41	4 58 29	12	25 42
17	S	9 42 29	24 15 22	13 27	19 54	5 5 27	1	25 45
18	M	9 46 26	25 13 10	13 8	2 22	4 58 24	29	25 48
19	Tu	9 50 22	26 10 58	12 48	15 4	4 36 20	44	25 51
20	W	9 54 19	27 8 48	12 29	28 1	4 0 15	56	25 55
21	Th	9 58 16	28 6 40	12 9	11 12	3 11 10	19	25 58
22	F	10 2 12	29 4 31	11 49	24 35	2 9 4	8	26 1
23	S	10 6 9	0 3 29	11 28	8 10	1 0 2	8 19	26 4
24	S	10 10 5	1 0 23	11 8	21 54	0 8 14	8 45	26 8
25	M	10 14 3	1 58 20	10 47	5 47	1 28 14	50	26 12
26	Tu	10 17 58	2 56 18	10 26	19 47	2 37 20	13	26 15
27	W	10 21 55	3 54 18	10 5	3 53	3 37 24	30	26 18
28	Th	10 25 51	4 52 18	9 44	18 5	4 25 27	19	26 22
29	F	10 29 48	5 50 20	9 23	2 21	4 56 28	23	26 26
30	S	10 33 45	6 48 23	9 1	16 37	5 9 27	32	26 30
31	S	10 37 41	7 46 28	8 40	0 50	5 3 24	56	26 34

AUGUST XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	2 S 38	10 N 14	1 N 6	19 N 25	2 S 9	7 N 30	21 r 59
4	2 39	10 48	1 10	18 25	2 46	6 18	21 49
7	2 39	11 20	1 14	17 28	3 20	5 17	21 40
10	2 38	11 52	1 17	16 17	3 56	4 40	21 30
13	2 38	12 20	1 20	15 15	4 18	4 20	21 21
16	2 37	12 50	1 22	13 59	4 36	4 31	21 12
19	2 37	13 15	1 24	12 46	4 40	5 7	21 2
22	2 36	13 40	1 25	11 24	4 29	6 12	20 53
25	2 35	14 5	1 25	10 5	4 2	7 35	20 43
28	2 34	14 27	1 25	8 36	3 18	9 4	20 34
31	2 32	14 50	1 24	7 16	2 24	10 30	20 24

D M	h		♂		♀		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "							
1	13 Ω 5	19 ♄ 15	3 ♂ 33	7 ♀ 49	5 ♄ 31				☐				
2	13 13	19 22	4 7	9 3	6 13				Δ			Δ	Δ
3	13 20	19 41	4 41	10 17	6 49				Δ	♂		☐	♂
4	13 28	19 54	5 14	11 31	7 20	♀ ♂ h	♂			♂		☐	♂
5	13 36	20 7	5 48	12 45	7 47	☉ ♂ ♀	♂			♂			
6	13 43	20 20	6 21	13 59	8 11	☉ ♂ h						*	
7	13 51	20 33	6 53	15 14	8 32				♂		Δ		♂
8	13 59	20 46	7 25	16 28	8 48								
9	14 6	20 59	7 56	17 42	8 53			Δ		Δ			Δ
10	14 14	21 12	8 28	18 56	9 0						☐		
11	14 22	21 25	8 59	20 10	8 58	♀ Δ ♂						♂	Δ
12	14 29	21 38	9 31	21 24	8 52			☐	Δ	☐	*	☐	
13	14 37	21 50	10 2	22 39	8 41								
14	14 45	22 3	10 33	23 53	8 24					*			☐
15	14 52	22 15	11 3	25 7	8 1			*	☐			*	
16	15 0	22 27	11 33	26 22	7 32							*	*
17	15 8	22 40	12 2	27 36	6 58				*		♂		*
18	15 16	22 52	12 31	28 50	6 19					♂		☐	♂
19	15 24	23 4	12 59	0 ♄ 5	5 36			♂					♂
20	15 32	23 16	13 27	1 19	4 49			♂				♂	♂
21	15 39	23 28	13 55	2 33	3 59							Δ	
22	15 47	23 40	14 22	3 47	3 5	♀ ♂ ♀		♂		*			
23	15 54	23 52	14 49	5 2	2 10					*			
24	16 2	24 4	15 16	6 16	1 16	☉ ♂ ♀					☐		
25	16 9	24 16	15 42	7 30	0 23			*				*	*
26	16 17	24 28	16 8	8 44	29 Ω 32				*	☐	Δ	♂	
27	16 24	24 40	16 33	9 59	28 43	♂ ☐ h		☐			Δ		☐
28	16 32	24 52	16 58	11 13	27 57					Δ			
29	16 39	25 4	17 23	12 28	27 17			Δ	Δ				Δ
30	16 47	25 16	17 47	13 42	26 44							Δ	Δ
31	16 54	25 28	18 10	14 57	26 18				☐		♂		

SEPTEMBER XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	54	0 N 43	1 N 59	0 N 53	16 N 36	0 N 11	21 N 13
4	15	54	0 43	1 54	0 53	16 30	0 11	21 7
7	15	55	0 43	1 50	0 53	16 23	0 12	21 1
10	15	56	0 43	1 45	0 53	16 16	0 12	20 55
13	15	57	0 42	1 42	0 54	16 10	0 12	20 49
16	15	57	0 42	1 38	0 54	16 4	0 12	20 43
19	15	58	0 42	1 34	0 55	15 58	0 13	20 38
22	15	59	0 42	1 29	0 55	15 52	0 13	20 32
25	16	0	0 42	1 24	0 56	15 47	0 14	20 27
28	16	0	0 42	1 19	0 56	15 42	0 14	20 21

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☽ Long.	☽ Lat.	☽ Declin	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	M	10 41 38	8 ^m 44 34	8 N 18	14 ^m 5	4 S 39	20 S 49	26 ^m 38
2	Tu	10 45 34	9 42 44	7 56 28	48	3 58 15	37	26 42
3	W	10 49 31	10 40 51	7 34 12	25	3 5 9	45	26 46
4	Th	10 53 27	11 39 1	7 12 25	44	2 2 3	34	26 49
5	F	10 57 24	12 37 14	6 50 8	48	0 55 2	N 37	26 53
6	S	11 1 20	13 35 29	6 28 21	23	0 N 14 8	34	26 57
7	S	11 5 17	14 33 45	6 5 3	45	1 21 14	8	27 1
8	M	11 9 13	15 32 4	5 43 15	53	2 23 18	54	27 4
9	Tu	11 13 10	16 30 24	5 20 27	51	3 18 22	55	27 7
10	W	11 17 7	17 28 47	4 57 9	43	4 3 25	57	27 11
11	Th	11 21 3	18 27 12	4 34 21	35	4 39 27	50	27 15
12	F	11 25 0	19 25 40	4 11 3	30	5 2 28	27	27 19
13	S	11 28 56	20 25 9	3 48 15	34	5 13 27	44	27 23
14	S	11 32 53	21 22 41	3 25 27	51	5 10 25	40	27 27
15	M	11 36 49	22 21 15	3 2 10	25	4 51 22	19	27 30
16	Tu	11 40 46	23 19 51	2 39 23	16	4 18 17	50	27 34
17	W	11 44 42	24 18 25	2 16 6	28	3 31 12	25	27 38
18	Th	11 48 39	25 17 9	1 53 19	57	2 31 6	17	27 42
19	F	11 52 36	26 15 51	1 29 3	44	1 20 0	S 16	27 46
20	S	11 56 32	27 14 36	1 6 17	45	0 4 6	55	27 49
21	S	12 0 29	28 13 22	0 42 1	56	1 S 14 13	18	27 53
22	M	12 4 25	29 12 10	0 19 16	12	2 27 19	3	27 56
23	Tu	12 8 22	0 ^h 10 59	0 S 4	31	3 32 23	44	28 0
24	W	12 12 18	1 9 50	0 28 14	49	4 23 26	57	28 3
25	Th	12 16 15	2 8 43	0 51 29	3	4 58 28	26	28 7
26	F	12 20 11	3 7 38	1 15 13	10	5 15 28	2	28 11
27	S	12 24 8	4 6 34	1 38 27	10	5 13 25	51	28 15
28	S	12 28 5	5 5 32	2 2 11	0	4 52 22	10	28 19
29	M	12 32 1	6 4 32	2 25 24	38	4 16 17	20	28 23
30	Tu	12 35 58	7 3 33	2 48 8	4	3 25 11	43	28 27

1800.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

19

SEPTEMBER XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	28 32	14 N 56	1 N 24	6 N 45	28 8	10 N 52	20 r 21
4	2 30	15 18	1 22	5 11	1 12	11 48	20 11
7	2 28	15 33	1 20	3 46	0 18	12 13	20 2
10	2 25	15 49	1 17	2 10	0 N 27	12 9	19 52
13	2 23	16 5	1 14	0 43	1 4	11 22	19 42
16	2 20	16 20	1 10	0 S 50	1 30	10 8	19 33
19	2 16	16 32	1 7	2 22	1 45	8 30	19 23
22	2 12	16 43	1 2	4 4	1 52	6 35	19 14
25	2 8	16 53	0 57	5 26	1 51	4 25	19 4
28	2 3	17 1	0 51	7 6	1 45	2 8	18 55

D M	♂		♀		♂		Mutual Aspts.	Lunar Aspects.						
	h Long.	♂ Long.	♂ Long.	♀ Long.	♀ Long.	♂ Long.		☉	☿	♂	♀	♂	♀	♂
	°	'	°	'	°	'								
1	17 Ω	1 25 ☿	39 18 ♂	33 16 ♀	11 25 Ω	59 25 R	43			♂		□		♂
2	17	9 25	50 18	55 17	25 25 R	43								♂
3	17	16 26	2 19	17 18	40 25 D	41		♂						
4	17	23 26	13 19	38 19	54 25	53			♂		Δ	*	♂	
5	17	31 26	24 19	59 21	9 26	12								
6	17	38 26	35 20	19 22	23 26	39				Δ	□			Δ
7	17	45 26	46 20	39 23	38 27	5								
8	17	52 26	57 20	58 24	52 27	43		Δ		□	*	♂	Δ	□
9	17	59 27	8 21	17 26	7 28	38	♀ * ♀		Δ		*		Δ	□
10	18	6 27	18 21	31 27	21 29	34	♀ * ♀							
11	18	13 27	29 21	52 28	36 0	41	♀ ♂ ♀	□	□	*				
12	18	20 27	39 22	8 29	50 1	52		*					□	*
13	18	27 27	50 22	24 1	5 3	7		*	*		♂	*	*	
14	18	34 28	0 22	39 2	19 4	28			*		♂	*	*	
15	18	41 28	11 22	54 3	34 5	56								
16	18	48 28	21 23	8 4	48 7	30	☉ Δ ♂			♂		□		♂
17	18	55 28	31 23	22 6	3 9	7			♂					♂
18	19	2 28	41 23	34 7	17 10	46			♂			Δ		
19	19	8 28	51 23	45 8	32 12	27			♂		*		♂	
20	19	15 29	1 23	56 9	46 14	10				♂	*			
21	19	21 29	11 24	6 11	1 15	56	☉ ♂ ♀					□		
22	19	28 29	20 24	16 12	15 17	44	☉ * ♀							*
23	19	34 29	30 24	24 13	30 19	32		*	*		□	Δ	♂	
24	19	41 29	40 24	32 14	44 21	21				Δ			*	
25	19	47 29	49 24	38 15	59 23	10		□	□					□
26	19	54 29	58 24	44 17	23 24	59	♀ Δ ♂						□	
27	20	0 0 Ω	7 24	49 18	38 26	48			Δ			♂	Δ	Δ
28	20	6 0	16 24	54 19	52 28	37	♀ ♂ ♀	Δ						
29	20	12 0	25 24	59 21	7 0	6	♀ * ♀				♂		□	Δ
30	20	18 0	34 25	2 22	21 2	14								

OCTOBER XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
	'	"	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	1	0 N 42	1 N 14	0 N 57	15 N 36	0 N 15	20 N 16
4	16	1	0 42	1 10	0 57	15 31	0 15	20 11
7	16	2	0 42	1 5	0 58	15 26	0 16	20 6
10	16	3	0 42	1 0	0 58	15 21	0 16	20 1
13	16	4	0 42	0 55	0 59	15 16	0 17	19 57
16	16	5	0 42	0 52	0 59	15 12	0 17	19 54
19	16	5	0 42	0 48	1 0	15 8	0 18	19 50
22	16	6	0 43	0 45	1 0	15 4	0 18	19 46
25	16	7	0 43	0 41	1 1	15 0	0 19	19 43
28	16	7	0 43	0 37	1 1	14 56	0 19	19 40
31	16	8	0 43	0 33	1 1	14 53	0 19	19 37

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☽ Long.	☽ Lat.	☽ Declin	♃ Long.
		H. M. S.	°	'	°	'	°	'
1	W	12 39 54	8 2 36	3 S 12	21 x 16	2 S 25	5 S 41	28 m 31
2	Th	12 43 51	9 1 42	3 35	4 r 13	1 18	0 N 29	28 34
3	F	12 47 47	10 0 49	3 58	16 56	0 8	6 32	28 38
4	S	12 51 44	10 59 58	4 21	29 25	1 N 1	12 14	28 42
5	S	12 55 40	11 59 10	4 45	11 s 41	2 6	17 21	28 46
6	M	12 59 37	12 58 23	5 8	23 46	3 4	21 42	28 50
7	Tu	13 3 34	13 57 39	5 31	5 n 43	3 53	25 7	28 53
8	W	13 7 30	14 56 57	5 54	17 35	4 33	27 25	28 57
9	Th	13 11 27	15 56 18	6 17	29 26	5 0	28 28	29 1
10	F	13 15 23	16 55 41	6 40	11 s 20	5 15	28 13	29 5
11	S	13 19 20	17 55 7	7 2	23 23	5 16	26 38	29 9
12	S	13 23 16	18 54 35	7 25	5 n 38	5 3	23 47	29 12
13	M	13 27 13	19 54 5	7 47	18 11	4 36	19 46	29 16
14	Tu	13 31 9	20 53 38	8 10	1 m 4	3 54	14 45	29 19
15	W	13 35 6	21 53 13	8 32	14 20	2 59	8 55	29 23
16	Th	13 39 3	22 52 50	8 54	28 1	1 51	2 30	29 27
17	F	13 42 59	23 52 30	9 17	12 s 4	0 36	4 S 14	29 31
18	S	13 46 56	24 52 11	9 38	26 27	0 S 44	10 54	29 35
19	S	13 50 52	25 51 55	10 0	11 m 4	2 2	17 6	29 38
20	M	13 54 48	26 51 40	10 22	25 50	3 13	22 21	29 41
21	Tu	13 58 45	27 51 27	10 43	10 f 36	4 10	26 11	29 44
22	W	14 2 42	28 51 16	11 5	25 15	4 51	28 14	29 47
23	Th	14 6 38	29 51 7	11 26	9 w 43	5 13	28 19	29 50
24	F	14 10 35	0 m 51	0 11	47 23	5 15	26 31	29 54
25	S	14 14 31	1 50 54	12 8	7 m 50	4 59	23 8	29 58
26	S	14 18 28	2 50 50	12 28	21 27	4 26	18 33	0 s 1
27	M	14 22 25	3 50 47	12 49	4 x 47	3 39	13 10	0 4
28	Tu	14 26 21	4 50 46	13 9	17 50	2 41	7 17	0 8
29	W	14 30 18	5 50 46	13 29	0 r 39	1 37	1 13	0 11
30	Th	14 34 14	6 50 48	13 49	13 16	0 29	4 N 48	0 14
31	F	14 38 11	7 50 52	14 9	25 41	0 N 40	10 33	0 18

OCTOBER XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	° /	° /	° /	° /	° /	° /	° /
1	18 58	17 N 8	0 N 45	8 S 25	1 N 33	0 S 11	18 r 45
4	1 52	17 14	0 38	9 51	1 18	2 30	18 35
7	1 46	17 19	0 32	11 18	1 2	4 49	18 26
10	1 39	17 22	0 25	12 39	0 42	7 1	18 16
13	1 32	17 23	0 17	14 2	0 24	9 12	18 7
16	1 24	17 22	0 10	15 16	0 4	11 16	17 57
19	1 16	17 21	0 2	16 33	0 S 17	13 15	17 48
22	1 7	17 18	0 S 6	17 40	0 38	15 7	17 38
25	0 58	17 14	0 14	18 50	0 57	16 53	17 29
28	0 49	17 10	0 22	19 49	1 16	18 31	17 19
31	0 39	17 2	0 31	20 43	1 34	20 0	17 10

D M	h	♄	♂	♀	♊	Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌
	° /	° /	° /	° /	° /								
1	20 24	0 42	25 8	3 23	4 26	4 1						*	
2	20 30	0 50	25 4	24 40	5 48		♂	♂		Δ			
3	20 36	0 58	25 R	4 25	55 7	35			Δ				♂
4	20 42	1 6	25 3	27 9	9 21					□		♂	
5	20 48	1 14	25 1	28 24	11 6								
6	20 54	1 22	24 59	29 38	12 50	☉ ♂ ♀		Δ	□		♂		
7	20 59	1 30	24 56	0 m 53	14 34	♀ □ ♄				*			
8	21 5	1 37	24 52	2 7	16 17		Δ		*				Δ
9	21 10	1 45	24 47	3 22	17 59			□					
10	21 16	1 52	24 41	4 36	19 40		□					Δ	
11	21 21	2 0	24 34	5 51	21 20				*	♂	*		□
12	21 27	2 7	24 26	7 5	23 0			*		♂		□	
13	21 32	2 14	24 17	8 20	24 40		*		♂		□		*
14	21 37	2 21	24 7	9 34	26 19								
15	21 42	2 27	23 57	10 49	27 57	☉ * h						*	
16	21 47	2 34	23 46	12 3	29 34			♂		*	Δ		
17	21 52	2 40	23 34	13 18	1 m 11								
18	21 57	2 47	23 22	14 32	2 47	♀ □ ♄	♂		*	□		♂	♂
19	22 2	2 53	23 7	15 47	4 23			*				♂	
20	22 7	2 59	22 52	17 1	5 58			*	□		♂		
21	22 11	3 5	22 36	18 16	7 32					Δ			
22	22 16	3 10	22 20	19 30	9 6	♂ □ h	*	□	Δ				
23	22 20	3 15	22 4	20 45	10 39	♀ ♂ ♂							*
24	22 25	3 20	21 47	21 59	12 11	♀ □ h		Δ			Δ	*	
25	22 29	3 25	21 30	23 11	13 48		□			♂			□
26	22 33	3 30	21 12	24 28	15 14				♂		□	□	
27	22 37	3 34	20 53	25 43	16 45		Δ						
28	22 41	3 39	20 33	26 57	18 15						*		Δ
29	22 45	3 43	20 13	28 12	19 45	♀ ♂ ♂		♂		Δ		Δ	
30	22 49	3 48	19 53	29 26	21 15	♀ □ h							
31	22 53	3 53	19 32	0 † 41	22 43	♀ * h			Δ				

NOVEMBER XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	10	0 N 43	0 N 31	1 N 2	14 N 52	0 N 20	19 N 37
4	16	10	0 43	0 28	1 2	14 49	0 20	19 35
7	16	11	0 43	0 24	1 3	14 47	0 21	19 33
10	16	12	0 43	0 19	1 4	14 45	0 21	19 32
13	16	12	0 43	0 16	1 5	14 43	0 22	19 31
16	16	13	0 43	0 13	1 6	14 41	0 22	19 30
19	16	14	0 43	0 10	1 6	14 40	0 23	19 31
22	16	14	0 43	0 9	1 6	14 39	0 23	19 32
25	16	15	0 43	0 6	1 7	14 38	0 24	19 33
28	16	15	0 43	0 3	1 7	14 38	0 24	19 34

D M	D W	Sidereal Time.			☉ Long.			☉ Declin			♃ Long.			♃ Lat.			♃ Declin			♃ Long.		
		H.	M.	S.	° ' "			° ' "			° ' "			° ' "			° ' "			° ' "		
1	S	14	42	7	8	m	50 58	14	S	28	7	8	56	1	N	45	15	N	50	0	21	
2	S	14	46	4	9		51 6	14		47 20	2		45 20	25			0	24				
3	M	14	50	0	10		51 15	15		6 2	2		37 24	8			0	27				
4	Tu	14	53	57	11		51 26	15		25 13	56	4	19	26	47			0	30			
5	W	14	57	54	12		51 40	15		43 25	48	4	50	28	14			0	33			
6	Th	15	1	50	13		51 55	16		1 7	39	5	8	28	22			0	36			
7	F	15	5	47	14		52 13	16		19 19	32	5	13	27	12			0	39			
8	S	15	9	43	15		52 32	16		37 1	33	5	5	24	47			0	42			
9	S	15	13	40	16		52 54	16		54 13	45	4	43	21	13			0	45			
10	M	15	17	36	17		53 18	17		11 26	12	4	7	16	40			0	48			
11	Tu	15	21	33	18		53 44	17		28 9	m	3	18	11	16			0	51			
12	W	15	25	29	19		54 11	17		44 22	11	2	17	5	12			0	54			
13	Th	15	29	26	20		54 41	18		0 5	50	1	7	18	18			0	56			
14	F	15	33	23	21		55 13	18		16 19	56	0	8	10	7	57			0	59		
15	S	15	37	19	22		55 46	18		32 4	m	1	23	14	24			1	2			
16	S	15	41	16	23		56 21	18		47 19	21	2	42	20	11			1	4			
17	M	15	45	12	24		56 58	19		2 4	f	3	46	24	45			1	7			
18	Tu	15	49	9	25		57 36	19		16 19	39	4	31	27	36			1	10			
19	W	15	53	5	26		58 16	19		30 4	v	5	2	28	25			1	13			
20	Th	15	57	2	27		58 57	19		44 19	23	5	10	27	9			1	16			
21	F	16	0	58	28		59 39	19		57 4	m	4	58	24	5			1	18			
22	S	16	4	55	0	f	0 22	20		10 18	3	4	28	19	40			1	20			
23	S	16	8	52	1		1 6	20		23 1	x	3	43	14	22			1	23			
24	M	16	12	48	2		1 51	20		36 14	53	2	48	8	33			1	25			
25	Tu	16	16	45	3		2 37	20		47 27	44	1	46	2	31			1	27			
26	W	16	20	41	4		3 24	20		59 10	r	0	40	3	N	29			1	30		
27	Th	16	24	38	5		4 12	21		10 22	40	0	N	27	9	15			1	32		
28	F	16	28	34	6		5 1	21		21 4	8	1	31	14	35			1	34			
29	S	16	32	31	7		5 52	21		31 16	53	2	31	19	19			1	36			
30	S	16	36	27	8		6 43	21		41 28	51	3	23	23	18			1	38			

1800.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

23

NOVEMBER XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	0 S 35	16 N 59	0 N 32	21 S 6	1 S 40	20 S 28	17 r 7
4	0 25	16 51	0 40	21 52	1 56	21 44	16 58
7	0 15	16 42	0 48	22 40	2 9	22 53	16 48
10	0 5	16 32	0 56	23 16	2 20	23 50	16 39
13	0 N 4	16 24	1 2	23 51	2 29	24 37	16 29
16	0 14	16 16	1 9	24 14	2 34	25 11	16 20
19	0 23	16 7	1 16	24 36	2 38	25 31	16 10
22	0 32	16 1	1 23	24 50	2 24	25 38	16 1
25	0 40	15 54	1 28	24 55	2 11	25 32	15 51
28	0 50	15 50	1 33	24 54	1 45	25 11	15 42

D M	h Long.	♄ Long.	♂ Long.	♀ Long.	♂ Long.	Mutual Aspts.	Lunar Aspects.						
							☉	☿	♈	♉	♊	♋	♌
1	22 56	3 56	19 11	1 55	24 16		♂			☐		♂	♂
2	22 59	4 0	18 50	3 10	25 14				☐		♂	♂	♂
3	23 3	4 3	18 28	4 24	27 12	♀ Δ ♄		Δ		*		♂	♂
4	23 6	4 6	18 7	5 39	28 39								
5	23 10	4 9	17 45	6 53	0 1	♂ * ♄		☐	*				
6	23 13	4 12	17 24	8 8	1 31								
7	23 16	4 15	17 2	9 22	2 57	♂ Δ ♄	Δ	*			♂	*	
8	23 19	4 17	16 41	10 37	4 22	☉ ♂ ♂		*			♂		Δ
9	23 22	4 20	16 19	11 51	5 46		☐					☐	Δ
10	23 25	4 22	15 58	13 5	7 8				♂				
11	23 27	4 24	15 37	14 20	8 30			*				☐	☐
12	23 30	4 26	15 16	15 34	9 51				♂		*	Δ	*
13	23 32	4 28	14 55	16 48	11 11				*		*		*
14	23 34	4 30	14 35	18 8	12 30				*			*	
15	23 36	4 31	14 16	19 17	13 47					☐			
16	23 38	4 32	13 56	20 31	15 3	☉ ☐ ♈	♂		☐		♂		
17	23 40	4 33	13 37	21 46	16 17			*		Δ		♂	♂
18	23 42	4 34	13 18	23 9	17 29				Δ			♂	♂
19	23 44	4 34	12 59	24 14	18 38	♀ Δ ♈		☐			Δ		
20	23 46	4 34	12 41	25 28	19 45								
21	23 47	4 34	12 24	26 43	20 49		*	Δ		♂	♂		*
22	23 48	4 34	12 18	27 57	21 49	☉ * ♄			♂			☐	*
23	23 50	4 34	11 53	29 12	22 45		☐					*	
24	23 51	4 33	11 49	0 w 26	23 37	♂ Δ ♈					*		
25	23 52	4 32	11 25	1 40	24 24	♀ ☐ ♄	Δ	♂				☐	☐
26	23 53	4 31	11 11	2 55	25 3	☉ Δ ♄				Δ			Δ
27	23 54	4 30	10 58	4 9	25 37				Δ			♂	Δ
28	23 55	4 28	10 46	5 23	26 7					☐			
29	23 56	4 27	10 35	6 37	26 27								
30	23 57	4 25	10 25	7 51	26 37			Δ	☐				

DECEMBER XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	°	'	°	'	°	'	°	'
1	16	15	0 N 44	0 N 0	1 N 8	14 N 28	0 N 25	19 N 36
4	16	15	0 44	0 8 2	1 9	14 39	0 26	19 39
7	16	16	0 44	0 4	1 10	14 39	0 27	19 41
10	16	16	0 44	0 6	1 10	14 40	0 27	19 44
13	16	16	0 44	0 7	1 11	14 41	0 28	19 47
16	16	16	0 44	0 8	1 11	14 42	0 28	19 51
19	16	17	0 44	0 10	1 12	14 45	0 29	19 55
22	16	17	0 44	0 11	1 12	14 47	0 29	19 59
25	16	17	0 44	0 12	1 12	14 50	0 30	20 4
28	16	17	0 44	0 14	1 13	14 53	0 30	20 9
31	16	17	0 44	0 15	1 14	14 57	0 30	20 15

D M		Sidereal Time.		☉ Long.		☉ Declin.		♂ Long.		♂ Lat.		♂ Declin.		♂ Long.	
		H.	M.	s.	°	'	"	°	'	°	'	°	'	°	'
1		16	40	24	9	7	35	21	55	10	N 46	4	N 6	26	N 8
2		16	44	21	10	8	28	22	0	22	38	4	38	27	58
3		16	48	17	11	9	22	22	8	45	30	4	58	28	21
4		16	52	14	12	10	18	22	17	16	28	5	6	27	30
5		16	56	10	13	11	14	22	24	28	19	4	58	25	28
6	S	17	0	7	14	12	13	22	32	10	21	4	39	23	8
7	S	17	4	3	15	13	12	22	40	11	18	4	7	17	54
8	M	17	8	0	16	14	13	22	45	4	57	3	22	12	51
9	Tu	17	11	57	17	15	14	22	51	17	38	3	27	7	9
10	W	17	15	53	18	16	17	22	57	0	41	1	33	0	59
11	Th	17	19	50	19	17	21	22	2	14	9	0	12	58	26
12	F	17	23	46	20	18	27	22	7	28	6	1	18	21	47
13	S	17	27	43	21	19	32	22	11	12	31	2	15	17	45
14	S	17	31	39	22	20	40	22	15	27	23	3	20	22	50
15	M	17	35	36	23	21	48	22	18	12	34	4	13	26	30
16	Tu	17	39	32	24	22	56	22	21	27	55	4	47	23	14
17	W	17	43	29	25	24	6	22	23	13	15	5	2	27	49
18	Th	17	47	26	26	25	15	22	25	28	21	4	56	25	19
19	F	17	51	22	27	26	25	22	27	13	5	4	28	21	11
20	S	17	55	19	28	27	35	22	27	27	21	3	45	15	55
21	S	17	59	15	29	28	45	22	28	11	7	2	50	10	2
22	M	18	3	12	0	29	58	22	28	24	24	1	48	3	53
23	Tu	18	7	8	1	31	6	22	27	7	15	0	42	2	N 14
24	W	18	11	5	2	32	16	22	27	19	45	0	N 24	8	7
25	Th	18	15	1	3	33	26	22	25	30	0	1	28	13	33
26	F	18	18	58	4	34	36	22	23	14	3	2	26	18	24
27	S	18	22	55	5	35	46	22	21	26	59	3	18	22	28
28	S	18	26	51	6	36	56	22	18	7	51	4	0	25	35
29	M	18	30	48	7	38	6	22	15	19	42	4	32	27	35
30	Tu	18	34	44	8	39	15	22	11	15	34	4	62	28	19
31	W	18	38	41	9	40	25	22	7	13	29	4	59	27	44

1800.]		RAPHAEL'S ASTRONOMICAL EPHEMERIS.						25					
DECEMBER XXXI DAYS.													
D M	Mars.		Venus.		Mercury.		Moon's						
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	Node.						
	°	'	°	'	°	'	°	'					
1	0 N 55	15 N 47	1 8 38	24 S 47	1 S 10	24 S 35	15	r 32					
4	1 1	15 48	1 43	24 30	0 19	23 42	15	22					
7	1 7	15 47	1 46	24 12	0 N 38	22 39	15	12					
10	1 12	15 50	1 49	23 41	1 36	21 24	15	3					
13	1 17	15 54	1 51	23 11	2 24	20 14	14	53					
16	1 21	16 0	1 52	22 27	2 52	19 24	14	44					
19	1 26	16 8	1 54	21 45	2 58	19 6	14	34					
22	1 30	16 18	1 54	20 51	2 51	19 17	14	25					
25	1 33	16 28	1 53	19 57	2 34	19 42	14	15					
28	1 36	16 39	1 52	18 51	2 13	20 22	14	6					
31	1 38	16 51	1 50	17 47	1 52	21 6	13	56					
D M	h	♄	♂	♀	♅	Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♄	♂	♀	♅
	°	'	°	'	°	'							
1	23 Q 57	4 Q 23	10 ♂ 17	9 ♀ 5	26 ♄ 38		♂						
2	23 57	4 R 21	10 R 9	10 19	26 R 28				*				♂
3	23 57	4 18	10 21	11 33	26 7			☐			*		
4	23 R 57	4 16	9 55	12 47	25 35							♂	
5	23 57	4 13	9 49	14 1	24 52			*		♈			
6	23 57	4 11	9 44	15 15	23 58	♀ Δ h	Δ				☐		
7	23 57	4 8	9 39	16 29	22 54				♈				Δ
8	23 57	4 5	9 35	17 43	21 42						Δ		
9	23 56	4 1	9 32	18 57	20 24			☐				Δ	☐
10	23 56	3 57	9 29	20 11	19 1	☉ ♂ ♅		♈		*			
11	23 56	3 53	9 D 27	21 25	17 38		*						*
12	23 55	3 49	9 28	22 39	16 18				*	☐		☐	
13	23 54	3 45	9 29	23 52	15 0						♂		
14	23 53	3 41	9 31	25 6	13 50			*	☐	Δ		*	
15	23 52	3 36	9 33	26 20	12 49	☉ Δ h							♈
16	23 51	3 31	9 36	27 34	11 58		♈	☐	Δ				
17	23 49	3 26	9 39	28 48	11 17							Δ	
18	23 48	3 21	9 43	0 m 2	10 47			Δ			♂		♈
19	23 46	3 16	9 48	1 15	10 29							☐	*
20	23 44	3 11	9 53	2 29	10 D 21		*		♈				
21	23 42	3 5	9 59	3 43	10 23	♀ ♂ ♄					*		☐
22	23 40	2 59	10 6	4 56	10 34								
23	23 38	2 54	10 14	6 10	10 53		☐	♈		Δ		*	Δ
24	23 36	2 48	10 23	7 23	11 19	☉ ☐ ♄			Δ				
25	23 34	2 42	10 33	8 36	11 53		Δ			☐		☐	
26	23 32	2 36	10 42	9 43	12 33							♈	
27	23 29	2 29	10 52	11 52	13 18	♀ ☐ ♂				☐			
28	23 27	2 23	11 3	12 15	14 8				Δ	*		Δ	♈
29	23 24	2 16	11 15	13 29	15 2					*			
30	23 22	2 9	11 28	14 42	16 0			☐					
31	23 19	2 2	11 41	15 55	17 3		♈				*		

RAPHAEL'S

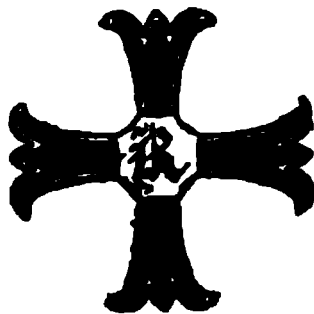
ASTRONOMICAL EPHEMERIS

OF THE

PLANETS' PLACES

For 1801.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

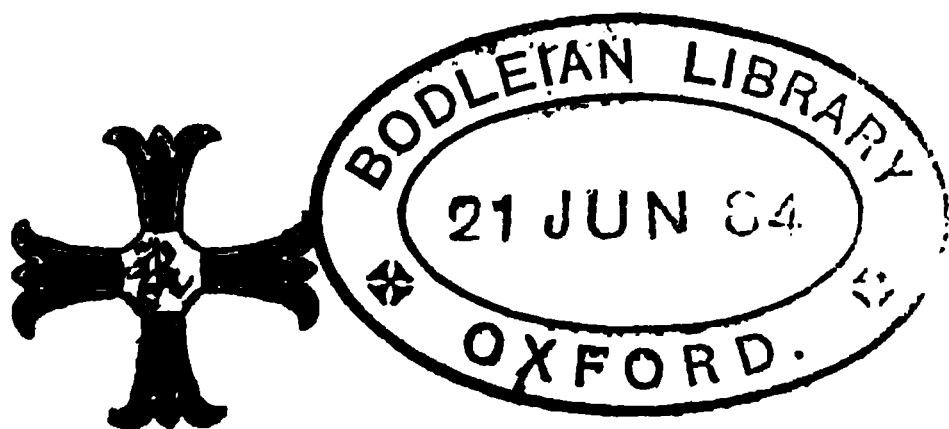
Price One Shilling.

(Alm.) 42. 2. 150

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1801.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.
Price One Shilling.

JANUARY XXXI DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	°	'	°	'	°	'	°	'
1	16	15	0 N 45	0 S 13	1 N 15	14 N 57	0 N 31	20 N 16
4	16	15	0 45	0 13	1 15	15 1	0 31	20 21
7	16	16	0 45	0 13	1 16	15 5	0 32	20 26
10	16	16	0 45	0 13	1 16	15 9	0 32	20 32
13	16	17	0 45	0 12	1 17	15 18	0 33	20 38
16	16	17	0 45	0 12	1 17	15 18	0 33	20 44
19	16	17	0 45	0 11	1 18	15 22	0 34	20 49
22	16	18	0 46	0 10	1 18	15 27	0 34	20 55
25	16	18	0 46	0 9	1 19	15 32	0 35	21 0
28	16	18	0 46	0 7	1 19	15 37	0 35	21 5
31	16	18	0 46	0 6	1 19	15 41	0 36	21 10

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☿ Long.	♂ Lat.	♂ Declin	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Th	18 42 37	10 W 41 35	23 S 2 25 28	4 N 53 25	N 52	2 16	
2	F	18 46 34	11 42 45	22 57 7 31	4 34 22	50	2 16	
3	S	18 5 31	12 43 54	22 51 19 41	4 31 18	46	2 16	
4	S	18 54 27	13 45 4	22 45 1 59	3 19 13	53	2 17	
5	M	18 58 24	14 46 14	22 39 14 27	2 26 8	22	2 17	
6	Tu	19 2 20	15 47 24	22 32 27 0	1 24 2	25	2 17	
7	W	19 6 17	16 48 35	22 24 10 8	0 17 3	3 46	2 17	
8	Th	19 10 13	17 49 45	22 17 23 29	0 8 54	9 58	2 17	
9	F	19 14 10	18 50 55	22 8 7 13	2 3 15	52	2 16	
10	S	19 18 6	19 52 6	22 0 21 24	3 7 21	5	2 16	
11	S	19 22 3	20 53 16	21 50 5 59	4 0 25	16	2 16	
12	M	19 26 0	21 54 26	21 41 20 55	4 36 27	48	2 16	
13	Tu	19 29 56	22 55 35	21 31 6 6	4 58 28	18	2 16	
14	W	19 33 53	23 56 44	21 21 21 20	4 57 26	40	2 15	
15	Th	19 37 49	24 57 54	21 10 6 27	4 35 23	7	2 15	
16	F	19 41 42	25 58 3	20 57 17	3 54 18	7	2 14	
				41	3 0 12	13	2 14	
				36	1 56 5	54	2 13	
				1	0 48 0	N 28	2 13	
				58	0 N 21 6	37	2 11	
				33	1 27 12	19	2 11	
				3 48	2 27 17	24	2 10	
				51	3 19 21	42	2 9	
				0 45	4 2 25	4	2 8	
				36	4 34 27	20	2 7	
				26	4 55 3	22	2 6	
				20	5 2 3	5	2 5	
				20	4 57 26	30	2 4	
				26	4 38 23	40	2 3	
				40	4 6 19	46	2 2	
				3	3 23 14	56	2 1	

FEBRUARY XXVIII DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	15	0 N 46	0 S 5	1 N 20	15 N 42	0 N 35	21 N 11
4	16	15	0 46	0 3	1 20	15 48	0 35	21 16
7	16	14	0 46	0 1	1 20	15 53	0 36	21 20
10	16	14	0 46	0 N 2	1 20	15 58	0 36	21 24
13	16	13	0 46	0 4	1 21	16 3	0 36	21 28
16	16	12	0 46	0 6	1 21	16 8	0 36	21 32
19	16	11	0 46	0 8	1 21	16 12	0 37	21 35
22	16	11	0 46	0 10	1 21	16 17	0 37	21 38
25	16	10	0 46	0 14	1 22	16 21	0 37	21 41
28	16	10	0 46	0 16	1 22	16 25	0 37	21 44

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☾ Long.	☾ Lat.	☾ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	S	20 44 51	12 ^m 14 45	17 S 9 11 ^m 35	2 N 28	9 N 30	1 ^h 59	
2	M	20 48 47	13 15 35	16 51 24 17	1 26	3 35	1 R 58	
3	Tu	20 52 44	14 16 23	16 34 7 ^h 11	0 18	2 S 35	1 57	
4	W	20 56 41	15 17 11	16 16 20 18	0 S 53	8 45	1 56	
5	Th	21 0 37	16 17 58	15 58 3 ^m 41	2 14	40	1 54	
6	F	21 4 33	17 18 43	15 40 17 22	3 51	19 59	1 52	
7	S	21 8 30	18 19 28	15 21 1 ^h 21	3 59	24 21	1 51	
8	S	21 12 27	19 20 12	15 2 15 39	4 39	27 19	1 49	
9	M	21 16 23	20 20 54	14 43 0 ^w 18	5 28	30	1 47	
10	Tu	21 20 20	21 21 35	14 24 15 0	5 6	27 41	1 45	
11	W	21 24 16	22 22 16	14 4 29 51	4 49	24 55	1 42	
12	Th	21 28 13	23 22 54	13 44 14 ^m 39	4 13	20 29	1 40	
13	F	21 32 9	24 23 32	13 24 29 15	3 21	14 53	1 38	
14	S	21 36 6	25 24 8	13 4 13 ^x 32	2 17	8 35	1 36	
15	S	21 40 2	26 24 42	12 44 27 26	1 6	2 2	1 34	
16	M	21 43 59	27 25 14	12 23 10 ^r 54	0 N 6	4 N 25	1 32	
17	Tu	21 47 56	28 25 45	12 2 23 56	1 16	10 29	1 30	
18	W	21 51 52	29 26 14	11 41 6 ^h 36	2 21	15 57	1 28	
19	Th	21 55 49	0 ^x 26 40	11 20 18 56	3 17	20 37	1 26	
20	F	21 59 45	1 27 5	10 58 1 ^h 2	4 3	24 21	1 24	
21	S	22 3 42	2 27 28	10 37 12 58	4 38	26 58	1 22	
22	S	22 7 38	3 27 48	10 15 24 50	5 1	28 22	1 20	
23	M	22 11 35	4 28 7	9 53 6 ^h 42	5 10	28 28	1 18	
24	Tu	22 15 31	5 28 24	9 31 18 38	5 7	27 14	1 15	
25	W	22 19 28	6 28 37	9 9 0 ^h 42	4 50	24 45	1 13	
26	Th	22 23 25	7 28 50	8 46 12 55	4 20	21 6	1 10	
27	F	22 27 21	8 29 0	8 24 25 20	3 37	16 29	1 8	
28	S	22 31 18	9 29 9	8 1 7 ^m 58	2 42	11 6	1 6	

1801.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

5

FEBRUARY XXVIII DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	1 N 50	20 N 11	0 S 36	2 S 49	1 S 52	21 S 27	12 r 14
4	1 50	20 31	0 24	1 16	2 0	20 22	12 4
7	1 50	20 51	0 12	0 N 19	2 4	19 4	11 55
10	1 50	21 11	0 N 1	1 52	2 5	17 33	11 45
13	1 50	21 30	0 13	3 27	2 2	15 48	11 36
16	1 50	21 50	0 28	5 0	1 54	13 50	11 26
19	1 50	22 8	0 41	6 32	1 42	11 40	11 17
22	1 50	22 26	0 57	8 1	1 25	9 18	11 7
25	1 50	22 43	1 11	9 31	1 2	6 46	10 58
28	1 50	23 0	1 26	10 56	0 34	4 7	10 48

D M	h	♈	♉	♊	♋	♌	Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌
	°	'	°	'	°	'								
1	31 Q 11	27 53	22 28	24 * 17	2 m 27	♊ Δ ♈								
2	31 R 7	27 45	22 54	25 27	4 5						*	Δ	♊	
3	21 2	27 38	23 21	26 37	5 44				♈					Δ
4	20 57	27 30	23 47	27 47	7 24	♀ Δ ♈	Δ		*					
5	20 52	27 23	24 14	28 57	9 4					□				□
6	20 47	27 16	24 40	0 r 7	10 45			□	*	□				
7	20 42	27 9	25 7	1 16	12 27	♀ ♊ ♈		*	*		Δ	♊	Δ	*
8	20 37	27 2	25 34	2 25	14 10			*		Δ				*
9	20 32	26 55	26 2	3 34	15 54	☉ ♊ ♈			□				□	
10	20 27	26 49	26 30	4 43	17 39									
11	20 22	26 42	26 58	5 52	19 24	♊ * ♈			Δ		♊	Δ	*	
12	20 17	26 35	27 26	7 1	21 10	♊ ♊ ♈				♊				
13	20 12	26 29	27 54	8 10	22 56		♈					□		♈
14	20 7	26 23	28 23	9 18	24 44									
15	20 2	26 17	28 52	10 26	26 33	☉ ♈ ♊			♊		Δ	*		
16	19 58	26 11	29 21	11 34	28 23									♈
17	19 53	26 5	29 50	12 42	0 * 13	♊ □ ♊	*			Δ	□			
18	19 48	25 59	0 19	13 50	2 4									*
19	19 44	25 54	0 48	14 57	3 56					□				
20	19 39	25 49	1 17	16 4	5 48	☉ □ ♊	□	Δ		*	♈		□	
21	19 34	25 44	1 47	17 10	7 41	♊ Δ ♈							*	
22	19 30	25 39	2 17	18 17	9 35					*				
23	19 25	25 34	2 47	19 23	11 29	♀ Δ ♈	Δ	□						Δ
24	19 20	25 29	3 17	20 30	13 23								□	
25	19 16	25 24	3 47	21 36	15 17			*		♈	*			
26	19 11	25 20	4 17	22 42	17 10					♈				
27	19 7	25 16	4 48	23 47	19 3								Δ	
28	19 2	25 12	5 18	24 52	20 55	♀ □ ♈	♊					□		

MARCH XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	10	0 N 47	0 N 17	1 N 22	16 N 27	0 N 37	21 N 45
4	16	9	0 47	0 20	1 22	16 31	0 37	21 47
7	16	8	0 47	0 23	1 22	16 35	0 37	21 48
10	16	8	0 47	0 27	1 22	16 39	0 37	21 49
13	16	7	0 47	0 30	1 22	16 42	0 37	21 50
16	16	6	0 47	0 33	1 22	16 45	0 37	21 51
19	16	5	0 47	0 35	1 22	16 48	0 37	21 51
22	16	4	0 47	0 38	1 22	16 51	0 37	21 51
25	16	3	0 47	0 41	1 22	16 53	0 37	21 51
28	16	3	0 47	0 44	1 22	16 56	0 37	21 50
31	16	2	0 47	0 48	1 22	16 58	0 37	21 49

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☽ Long.	☽ Lat.	☽ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	S	22 35 14	10 29 16	7 S 39	20 49	1 N 39	5 N 10	1 4
2	M	22 39 11	11 29 21	7 16	3 52	0 29	1 S 6	1 2
3	Tu	22 43 7	12 29 24	6 53	17 8	0 S 44	7 25	1 0
4	W	22 47 4	13 29 26	6 30	0 36	1 55	13 29	0 57
5	Th	22 51 0	14 29 26	6 7	14 15	3 19	1	0 55
6	F	22 54 57	15 29 24	5 44	28 5	3 57	23 37	0 52
7	S	22 58 51	16 29 21	5 20	12 6	4 40	26 54	0 50
8	S	23 2 50	17 29 17	4 57	26 16	5 7	28 32	0 47
9	M	23 6 47	18 29 10	4 34	10 33	5 15	28 17	0 45
10	Tu	23 10 43	19 29 2	4 10	24 55	5 3	26 8	0 42
11	W	23 14 40	20 28 53	3 47	9 18	4 33	22 20	0 39
12	Th	23 18 36	21 28 41	3 22	23 36	3 45	17 12	0 37
13	F	23 22 33	22 28 28	2 59	7 46	2 44	11 12	0 34
14	S	23 26 29	23 28 13	2 35	21 42	1 34	4 45	0 32
15	S	23 30 26	24 27 56	2 12	5 20	0 20	1 N 49	0 29
16	M	23 34 23	25 27 37	1 48	18 39	0 N 53	8 8	0 26
17	Tu	23 38 19	26 27 16	1 25	1 38	2 21	13 58	0 24
18	W	23 42 16	27 26 52	1 14	14 18	3 31	19 3	0 21
19	Th	23 46 12	28 26 26	0 37	26 40	3 54	23 14	0 19
20	F	23 50 9	29 25 58	0 14	8 49	4 34	26 18	0 16
21	S	23 54 5	0 25 28	0 N 10	20 47	5 1	28 9	0 13
22	S	23 58 2	1 24 55	0 34	2 41	5 15	28 41	0 10
23	M	0 1 58	2 24 20	0 57	14 34	5 15	27 54	0 7
24	Tu	0 5 55	3 23 42	1 21	26 31	5 2	25 49	0 5
25	W	0 9 52	4 23 2	1 45	8 36	4 36	22 34	0 3
26	Th	0 13 48	5 22 20	2 8	20 54	3 57	18 17	0 0
27	F	0 17 45	6 21 35	2 32	3 26	3 51	13 8	29 57
28	S	0 21 43	7 20 48	2 55	16 16	2 3	7 19	29 55
29	S	0 25 38	8 19 59	3 19	29 23	0 53	1 4	29 52
30	M	0 29 34	9 19 8	3 42	12 49	0 S 21	5 S 23	29 49
31	Tu	0 33 31	10 18 14	4 5	26 30	1 35	11 43	29 47

1801.]		RAPHAEL'S ASTRONOMICAL EPHEMERIS.										7			
MARCH XXXI DAYS.															
D. M.	Mars.		Venus.		Mercury.		Moon's Node.								
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.									
	°	'	°	'	°	'	°	'							
1	1 N 49	23 N 6	1 N 31	11 N 27	0 S 23	3 S 14	10 r 45								
4	1 49	23 22	1 47	12 49	0 N 12	0 33	10 35								
7	1 48	23 36	2 2	14 13	0 50	2 N 0	10 26								
10	1 48	23 50	2 18	15 29	1 31	4 19	10 16								
13	1 47	24 3	2 33	16 47	2 9	6 15	10 7								
16	1 47	24 16	2 49	17 59	2 44	7 41	9 57								
19	1 46	24 25	3 4	19 8	3 10	8 32	9 48								
22	1 46	24 34	3 21	20 13	3 25	8 43	9 38								
25	1 45	24 43	3 34	21 14	3 25	8 17	9 29								
28	1 45	24 50	3 49	22 10	3 10	7 16	9 19								
31	1 44	24 58	4 3	23 6	2 40	5 52	9 10								
D. M.	h	♈	♉	♊	♋	♌	Mutual Aspts.	Lunar Aspects.							
	Long.	Long.	Long.	Long.	Long.			☉	☿	♈	♉	♊	♋	♌	♍
	°	'	°	'	°	'									
1	18 Q 58	25 ♄ 8	5 ♀ 49	25 r 57	22 x 47						*				♂
2	18 R 53	25 R 4	6 20	27 1	24 37	♂ Δ ♈		♂				Δ			
3	18 49	25 1	6 51	28 5	26 24					*					
4	18 45	24 58	7 22	29 9	28 9							□			♂
5	18 41	24 55	7 53	0 13	29 51			Δ			□				
6	18 37	24 52	8 24	1 17	1 r 30	♂ ♀ ♀			*			Δ			Δ
7	18 33	24 49	8 56	2 20	3 6			□			Δ			♂	
8	18 29	24 47	9 28	3 23	4 37				□						
9	18 25	24 44	10 0	4 25	6 2									Δ	□
10	18 21	24 42	10 32	5 27	7 22			*	Δ			♂			
11	18 17	24 40	11 4	6 29	8 36									Δ	□
12	18 13	24 38	11 36	7 31	9 44						♂				*
13	18 10	24 36	12 8	8 32	10 46									□	*
14	18 6	24 35	12 40	9 33	11 41			♂				Δ			
15	18 3	24 34	13 12	10 33	12 27	☉ Δ ♈			♂						
16	18 0	24 33	13 45	11 32	13 5						Δ	□	*		♂
17	17 56	24 32	14 17	12 31	13 35									□	
18	17 53	24 31	14 49	13 30	13 57							□			♂
19	17 50	24 31	15 22	14 29	14 12			*	Δ			*			
20	17 47	24 31	15 55	15 27	14 R 19								*		*
21	17 44	24 D 31	16 28	16 24	14 18	☉ ♀ ♀				*			♂		
22	17 42	24 31	17 1	17 21	14 8	♀ ♀ ♀		□	□						
23	17 39	24 31	17 34	18 17	13 51	♂ * ♀								*	□
24	17 36	24 32	18 7	19 13	13 28				*				♂		
25	17 34	24 32	18 40	20 8	12 59			Δ							Δ
26	17 32	24 33	19 13	21 3	12 24						♂		*	□	
27	17 30	24 34	19 46	21 57	11 44										
28	17 27	24 35	20 20	22 50	11 0									□	
29	17 25	24 36	20 53	23 42	10 14	♀ * ♈			♂		*				
30	17 22	24 38	21 27	24 33	9 26	☉ ♂ ♀		♂		*				Δ	♂
31	17 20	24 40	22 0	25 25	8 36							□	Δ		

APRIL XXX DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	1	0 N 47	0 N 49	1 N 22	16 N 58	0 N 37	21 N 49
4	16	0	0 47	0 52	1 22	16 59	0 37	21 48
7	15	59	0 47	0 56	1 21	17 0	0 37	21 46
10	15	58	0 47	0 59	1 21	17 1	0 37	21 44
13	15	58	0 46	1 1	1 21	17 2	0 37	21 42
16	15	57	0 46	1 3	1 21	17 2	0 37	21 40
19	15	56	0 46	1 5	1 21	17 2	0 37	21 37
22	15	56	0 46	1 7	1 21	17 2	0 37	21 34
25	15	55	0 46	1 10	1 20	17 1	0 37	21 30
28	15	54	0 46	1 12	1 20	17 0	0 37	21 26

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	♂ Long.	♂ Lat.	♂ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	W	0 37 27	11 r 17 19	4 N 28	10 m 26	2 S 45	17 S 35	29 m 45
2	Th	0 41 24	12 16 22	4 51	24 31	3 46	22 35	29 R 42
3	F	0 45 21	13 15 24	5 14	8 f 44	4 34	26 17	29 39
4	S	0 49 17	14 14 23	5 37	23 0	5 5	28 21	29 37
5	S	0 53 14	15 13 22	6 0	7 w 15	5 17	28 32	29 34
6	M	0 57 10	16 12 18	6 23	21 28	5 10	26 51	29 32
7	Tu	1 1 7	17 11 12	6 45	5 m 36	4 44	23 28	29 29
8	W	1 5 3	18 10 5	7 8	19 36	4 1	18 46	29 26
9	Th	1 9 0	19 8 57	7 30	3 x 27	3 5	13 7	29 24
10	F	1 12 56	20 7 46	7 53	17 8	1 59	6 55	29 22
11	S	1 16 53	21 6 34	8 15	0 r 36	0 47	0 29	29 20
12	S	1 20 50	22 5 19	8 37	13 52	0 N 26	5 N 53	29 18
13	M	1 24 46	23 4 3	8 59	26 53	1 37	11 53	29 15
14	Tu	1 28 43	24 2 45	9 20	9 s 39	2 41	17 16	29 13
15	W	1 32 39	25 1 25	9 42	22 11	3 36	21 49	29 10
16	Th	1 36 36	26 0 3	10 3	4 n 30	4 20	25 19	29 8
17	F	1 40 32	26 58 39	10 24	16 38	4 53	27 38	29 6
18	S	1 44 29	27 57 12	10 45	28 36	5 10	28 37	29 4
19	S	1 48 25	28 55 44	11 6	10 s 30	5 15	28 17	29 2
20	M	1 52 22	29 54 13	11 27	22 23	5 6	26 38	29 0
21	Tu	1 56 18	0 s 52 40	11 48	4 s 19	4 45	23 48	28 58
22	W	2 0 15	1 51 4	12 8	16 23	4 10	19 55	28 56
23	Th	2 4 12	2 49 27	12 28	28 40	3 24	15 8	28 54
24	F	2 8 8	3 47 47	12 48	11 m 14	2 26	9 37	28 52
25	S	2 12 5	4 46 6	13 5	24 9	1 20	3 33	28 50
26	S	2 16 1	5 44 22	13 27	7 s 27	0 8	2 S 50	28 48
27	M	2 19 58	6 42 36	13 46	21 8	1 S 6	9 17	28 46
28	Tu	2 23 54	7 40 49	14 5	5 m 11	2 19	15 27	28 44
29	W	2 27 51	8 39 0	14 24	19 32	3 24	20 54	28 42
30	Th	2 31 47	9 37 9	14 43	4 f 7	4 17	25 12	28 40

APRIL XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	1 N 43	24 N 59	4 N 6	23 N 20	2 N 27	5 N 21	9 r 7
4	1 42	25 3	4 18	24 4	1 44	3 44	8 57
7	1 41	25 6	4 30	24 48	0 55	2 55	8 48
10	1 40	25 7	4 40	25 26	0 7	1 7	8 38
13	1 40	25 8	4 50	25 57	0 S 38	0 19	8 29
16	1 39	25 6	4 57	26 22	1 18	0 S 7	8 19
19	1 38	25 5	5 3	26 47	1 51	0 9	8 10
22	1 37	25 1	5 6	27 1	2 17	0 N 9	8 0
25	1 36	24 56	5 9	27 15	2 37	0 47	7 51
29	1 35	24 50	5 7	27 21	2 51	1 41	7 41

D M	h		♈		♉		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋
1	17 Q 18	24 42	22 34	26 16	7 r 46					☐			
2	17 R 16	24 44	23 7	27 6	6 R 58				*		Δ	♊	
3	17 15	24 46	23 41	27 55	6 12			Δ					Δ
4	17 13	24 49	24 15	28 43	5 28				☐	Δ		♊	
5	17 12	24 52	24 49	29 30	4 47	♀ Δ ☿							☐
6	17 10	24 55	25 23	0 17	4 11			☐			♊		
7	17 9	24 58	25 57	1 3	3 39	☉ Δ h			Δ				*
8	17 8	25 1	26 31	1 49	3 12			*		♊			
9	17 7	25 5	27 5	2 33	2 50	♀ * ♀						Δ	☐
10	17 6	25 9	27 39	3 15	2 33								
11	17 5	25 13	28 13	3 56	2 20				♊		Δ	☐	*
12	17 4	25 17	28 47	4 36	2 D 11					Δ			
13	17 4	25 21	29 22	5 15	2 14	♊ ☐ ☿		♊			☐	*	
14	17 3	25 25	29 56	5 53	2 18								
15	17 3	25 29	0 31	6 30	2 27	☉ ☐ ♈				☐	*		
16	17 2	25 34	1 5	7 6	2 42				Δ				♊ *
17	17 2	25 39	1 40	7 40	3 1					*			♊ *
18	17 D 2	25 44	2 14	8 13	3 24			*	☐			♊	☐
19	17 2	25 49	2 49	8 44	3 52								
20	17 2	25 54	3 23	9 13	4 24						♊		
21	17 3	25 59	3 58	9 41	5 0			☐	*				*
22	17 3	26 5	4 33	10 7	5 40					♊			Δ
23	17 4	26 11	5 8	10 32	6 24			Δ					
24	17 4	26 17	5 43	10 57	7 14							*	☐
25	17 5	26 22	6 18	11 20	8 0				♊		*		
26	17 6	26 29	6 53	11 42	8 53							☐	Δ
27	17 7	26 35	7 28	12 0	9 52					*	☐		♊
28	17 8	26 42	8 3	12 16	10 51			♊				Δ	
29	17 9	26 49	8 38	12 30	11 54	☉ * ♊				☐	Δ		
30	17 10	26 56	9 13	12 40	13 0				*				

MAY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	1 N 35	24 N 41	5 N 3	27 N 22	23 58	2 N 50	7 32
4	1 34	24 31	5 54	27 14	3 0	4 13	7 22
7	1 33	24 21	4 41	27 3	2 56	5 48	7 13
10	1 32	24 9	4 26	26 37	2 46	7 32	7 3
13	1 31	23 54	4 1	26 12	2 32	9 24	6 54
16	1 30	23 40	3 31	25 31	2 13	11 23	6 44
19	1 29	23 23	3 2	24 50	1 50	13 27	6 35
23	1 28	23 4	2 30	23 55	1 23	15 33	6 25
26	1 27	22 46	1 46	22 59	0 53	17 37	6 15
28	1 26	22 26	1 4	21 58	0 22	19 36	6 6
31	1 25	22 3	0 20	20 50	0 N 10	21 24	5 56

D M	h		M		J		♀		♂		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋
	°	'	°	'	°	'	°	'	°	'							
1	17 2	11 27	25 3	9 23	48 12	0 48	14 7	8						Δ		♂	Δ
2	17 12	27 10	10 23	12 54	15 18									☐		♂	
3	17 14	27 17	10 58	12 59	16 31							Δ					☐
4	17 15	27 25	11 33	13 2	17 48	♂	Δ	h					Δ		♂		
5	17 17	27 32	12 8	13 2	19 7							☐		♂			Δ *
6	17 19	27 39	12 43	13 1	20 27												
7	17 20	27 47	13 18	12 59	21 49							*				Δ	☐
8	17 22	27 55	13 53	12 54	23 18	☉	☐	h					♂		Δ		*
9	17 24	28 3	14 29	12 46	24 40												*
10	17 26	28 11	15 4	12 34	26 10									Δ	☐	☐	♂
11	17 29	28 20	15 40	12 19	27 42												
12	17 31	28 28	16 16	12 2	29 16	♂	*	☐				♂		Δ		*	
13	17 34	28 36	16 51	11 42	0 51									*			♂
14	17 36	28 45	17 26	11 20	2 28									*			
15	17 39	28 54	18 2	10 56	4 8								☐				
16	17 42	29 3	18 37	10 31	5 51												*
17	17 45	29 12	19 18	10 4	7 35											♂	
18	17 48	29 21	19 49	9 36	9 21							*	*			♂	
19	17 51	29 30	20 24	9 6	11 10	☉	Δ	☐						♂			*
20	17 54	29 39	20 59	8 32	13 1							☐					☐
21	17 58	29 48	21 35	7 57	14 54	☉	*	♂									☐
22	18 1	29 57	22 11	7 22	16 48											*	Δ
23	18 5	0 7	22 47	6 46	18 45	♂	☐	h				Δ	♂		*		Δ
24	18 8	0 16	23 23	6 10	20 44									*			
25	18 12	0 26	23 59	5 39	22 45	♂	*	♂							☐	☐	
26	18 16	0 36	24 35	4 57	24 45	☉	♂	♀						☐			
27	18 20	0 46	25 11	4 21	26 46							*			Δ	Δ	♂
28	18 24	0 56	25 47	3 44	28 57	♂	Δ	☐				♂		Δ			♂
29	18 29	1 6	26 23	3 7	1 2	♂	*	♂				☐					
30	18 32	1 16	26 59	2 30	3 11	♀	♂	♀									
31	18 36	1 27	27 36	1 53	5 24	♀	*	♂				Δ			♂	♂	Δ

JUNE XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Decl'n.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	48	0 N 45	1 N 26	1 N 18	16 N 29	0 N 37	20 N 25
4	15	48	0 45	1 26	1 18	16 25	0 37	20 18
7	15	47	0 45	1 25	1 18	16 21	0 37	20 11
10	15	47	0 45	1 25	1 18	16 16	0 37	20 4
13	15	46	0 44	1 25	1 18	16 11	0 37	19 56
16	15	46	0 44	1 24	1 18	16 6	0 37	19 48
19	15	46	0 44	1 24	1 18	16 0	0 37	19 39
22	15	46	0 44	1 23	1 17	15 54	0 37	19 30
25	15	46	0 44	1 22	1 17	15 49	0 37	19 22
28	15	45	0 44	1 20	1 17	15 43	0 37	19 13

D M	D W	Siderea' Time.	☉ Long.	☉ Declin	♄ Long.	♄ Lat.	♄ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	M	4 37 57	10 ♀ 25 46	22 N 2	12 m 37	48 7	20 S 59	28 m 7
2	Tu	4 41 54	11 23 12	22 10	26 51	3 15	15 38	28 h 7
3	W	4 45 50	12 20 37	22 18	10 x 42	2 14	9 38	28 7
4	Th	4 49 47	13 18 22	22 25	24 10	1 7	3 20	28 7
5	F	4 53 43	14 15 25	22 32	7 r 18	0 N 3	2 N 56	28 7
6	S	4 57 40	15 12 49	22 39	20 8	1 10	8 58	28 D 7
7	S	5 1 37	16 10 12	22 45	28 45	2 13	14 31	28 7
8	M	5 5 33	17 7 35	22 51	15 10	3 9	19 24	28 7
9	Tu	5 9 30	18 4 56	22 56	27 25	3 54	23 24	28 8
10	W	5 13 26	19 2 18	23 1	9 ♀ 33	4 29	26 20	28 8
11	Th	5 17 23	19 59 39	23 5	21 35	4 51	28 2	28 8
12	F	5 21 19	20 56 59	23 9	35 32	5 0	28 25	28 9
13	S	5 25 16	21 54 19	23 13	15 25	4 56	27 29	28 10
14	S	5 29 12	22 51 37	23 16	27 16	4 40	25 18	28 10
15	M	5 33 9	23 48 55	23 19	9 Ω 8	4 11	22 1	28 11
16	Tu	5 37 6	24 46 12	23 22	21 2	3 31	17 50	28 12
17	W	5 41 2	25 43 29	23 24	3 m 4	2 41	12 54	28 12
18	Th	5 44 59	26 40 44	23 26	15 16	1 43	7 24	28 13
19	F	5 48 55	27 37 59	23 27	27 45	0 39	1 29	28 13
20	S	5 52 52	28 35 14	23 28	10 Δ 35	0 8	29 48	28 14
21	S	5 56 48	29 32 27	23 28	23 - 49	1 37	10 46	28 14
22	M	6 0 45	0 ♄ 29 39	23 28	7 m 33	2 42	16 36	28 15
23	Tu	6 4 42	1 26 52	23 28	21 46	3 40	21 46	28 16
24	W	6 8 38	2 24 3	23 27	6 † 27	4 25	25 45	28 17
25	Th	6 12 35	3 21 15	23 26	21 30	4 53	28 4	28 18
26	F	6 16 31	4 18 26	23 24	6 v 46	5 0	28 17	28 19
27	S	6 20 28	5 15 36	23 22	22 4	4 46	26 22	28 20
28	S	6 24 24	6 12 47	23 19	7 m 16	4 13	22 33	28 21
29	M	6 28 21	7 9 58	23 16	23 4	3 22	17 21	28 22
30	Tu	6 32 17	8 7 9	23 13	6 x 30	2 20	11 18	28 23

JUNE XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	1 N 25	21 N 56	0 N 7	20 N 33	0 N 21	21 N 57	5 58
4	1 24	21 33	0 S 27	19 36	0 51	23 22	5 43
7	1 23	21 7	1 13	18 39	1 16	24 25	5 34
10	1 21	20 41	1 44	17 53	1 37	25 3	5 24
13	1 20	20 14	2 19	17 13	1 51	25 16	5 15
16	1 19	19 45	2 41	16 47	1 58	25 6	5 6
19	1 18	19 16	3 8	16 22	1 58	24 36	4 56
22	1 17	18 45	3 24	16 10	1 53	23 49	4 46
25	1 16	18 14	3 42	16 5	1 41	22 48	4 37
28	1 15	17 43	3 49	16 8	1 24	21 38	4 27

D M	♂		♀		Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀	♂
1	18 41	1 37	28 11	1 16	7 35	♂ * ♀	Δ	♂				Δ
2	18 45	1 47	28 47	0 41	9 48							
3	18 49	1 58	29 23	0 8	12 0	☉ ☿ ♀	□	♂		Δ *		□
4	18 54	2 8	29 59	29 38	14 11			♂		Δ *		
5	18 58	2 19	0 35	29 11	16 22					Δ		
6	19 2	2 29	1 11	28 46	18 33	♀ * ♂	*		Δ			*
7	19 7	2 40	1 47	28 24	20 44					□	□	
8	19 12	2 51	2 23	28 3	22 54	♀ Δ ♀		□		*	*	☉
9	19 17	3 2	2 59	27 44	25 3	♂ ☉ ♀	Δ		*	*	☉	
10	19 22	3 13	3 36	27 27	11	☉ * ♀						
11	19 27	3 24	4 12	27 12	29 17	♀ ☉ ♀	☉	□	*			
12	19 32	3 35	4 48	26 59	1 21							☉
13	19 37	3 47	5 25	26 49	3 23							
14	19 42	3 58	6 1	26 45	5 23		*				*	
15	19 48	4 10	6 38	26 41	7 21					☉	☉	
16	19 53	4 21	7 14	26 D 38	9 18		*		☉			□
17	19 59	4 33	7 51	26 38	11 12				☉			
18	20 4	4 45	8 27	26 39	13 4							*
19	20 10	4 57	9 4	26 39	14 53		□	☉			Δ	
20	20 15	5 8	9 40	26 42	16 40	☉ ☉ ♀				*	*	
21	20 21	5 20	10 16	26 48	18 25		Δ		*			□
22	20 27	5 32	10 53	26 53	20 9				*	□	□	
23	20 33	5 44	11 29	27 12	21 50			*	□		♂	Δ
24	20 39	5 56	12 5	27 29	23 28					Δ	Δ	
25	20 45	6 8	12 42	27 49	25 3			□	Δ			
26	20 51	6 20	13 18	28 10	26 36	♀ Δ ♀	♂					
27	20 57	6 32	13 55	28 32	28 7	♀ * ♀		Δ				Δ
28	21 3	6 44	14 32	28 54	29 37	♀ * ♀				♂	♂	
29	21 9	6 57	15 9	29 17	1 4				♂			□
30	21 15	7 9	15 46	29 41	2 27		Δ					

JULY XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.		
	'	"	Lat.	Declin.	Lat.	Decl'n.	Lat.	Declin.	
			°	'	°	'	°	'	
1	15	45	0 N 44	1 N 18	1 N 17	15 N 37	0 S 37	19 N 4	
4	15	45	0 44	1 16	1 17	15 31	0 37	18 54	
7	15	45	0 44	1 14	1 17	15 24	0 36	18 44	
10	15	46	0 44	1 11	1 17	15 18	0 36	18 34	
13	15	46	0 43	1 8	1 17	15 11	0 36	18 24	
16					1 17	15 3	0 36	18 14	
19					1 17	14 57	0 36	18 4	
22					1 17	14 50	0 36	17 53	
25					1 17	14 43	0 36	17 42	
28					1 17	14 36	0 39	17 31	
31					1 17	14 29	0 39	17 20	
D M					☉ Declin	☽ Long.	♂ Lat.	♂ Declin	♂ Long.
					°	°	°	°	°
1					3 N 9	30 28	1 S 11	48 51	28 25
2					3 5	37 59	0 0	1 N 35	28 25
3					3 1	17 6	1 N 9	7 47	28 26
4					3 56	29 52	2 12	13 30	28 28
5					2 50	12 20	3 8	18 32	28 29
6					3 45	24 36	3 54	22 43	28 31
7					2 39	6 42	4 28	25 52	28 33
8					3 32	18 42	4 51	27 49	28 35
9					2 25	0 37	5 0	23 28	28 37
10					3 18	12 30	4 56	27 48	28 39
11					3 10	24 21	4 40	25 52	28 41
12					3 3	32 14	4 11	22 48	28 43
13					1 54	18 8	3 32	18 46	28 45
14					1 45	0 6	3 42	18 59	28 47
15					1 36	12 11	1 45	8 37	28 49
16	Th	7 35	22 33	22 52	21 26	24 27	0 42	2 51	28 52
17	F	7 39	19 24	20 9	21 16	6 56	0 3	25 38	28 54
18	S	7 43	15 25	17 25	21 6	19 44	1 31	9 9	28 56
19	S	7 47	12 26	14 41	20 56	2 55	2 35	14 56	28 58
20	M	7 51	9 27	11 58	20 45	16 32	3 33	20 12	29 0
21	Tu	7 55	5 28	9 14	20 34	0 36	4 19	24 32	29 2
22	W	7 59	2 29	6 32	20 22	15 8	4 51	27 27	29 4
23	Th	8 3	58 0	3 49	20 10	0 3	5 4	29 32	29 7
24	F	8 6	55 1	1 7	19 57	15 15	4 56	27 30	29 9
25	S	8 10	51 1	58 26	19 45	0 33	4 27	24 24	29 12
26	S	8 14	48 2	55 45	19 32	15 45	3 39	19 37	29 14
27	M	8 18	44 3	53 5	19 18	0 42	2 37	19 41	29 16
28	Tu	8 22	41 4	50 26	19 5	15 16	1 26	7 8	29 18
29	W	8 26	38 5	47 48	18 51	29 23	0 11	0 25	29 21
30	Th	8 30	34 6	45 11	18 36	13 1	1 N 2	6 N 6	29 24
31	F	8 34	31 7	42 36	18 22	26 12	2 9	12 8	29 26

JULY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	1 N 14	17 N 7	4 S 8	16 N 14	1 N 2	20 N 20	4 r 18
4	1 12	16 32	4 9	16 25	0 35	18 57	4 8
7	1 11	15 56	4 13	16 43	0 4	17 33	3 59
10	1 10	15 19	4 14	17 2	0 S 30	16 9	3 49
13	1 9	14 42	4 13	17 23	1 7	14 48	II 40
16	1 8	14 3	4 11	17 48	1 47	13 34	3 30
19	1 7	13 24	4 7	18 9	2 28	12 29	3 21
22	1 5	12 43	4 2	18 34	3 9	11 37	3 11
25	1 4	12 3	3 55	18 54	3 47	11 1	3 2
28	1 3	11 20	3 47	19 16	4 19	10 44	2 52
31	1 2	10 35	3 39	19 36	4 43	10 43	2 43

D M	h	M	J	S	Q	Mutual Aspts.	Lunar Aspects.					
							☉	☿	♈	♊	♋	♌
1	21	Q 22	7 Q 23	16 Q 23	0 II 6	3 Q 49						
2	31	23	7 34	16 59	0 33	5 9	☐	♈	Δ	Δ	* Δ	
3	21	35	7 46	17 36	1 3	6 26			Δ	Δ		
4	21	41	7 58	18 13	1 34	7 39	♋	♈				
5	21	48	8 11	18 50	2 7	8 50	*		☐			☐
6	21	54	8 23	19 27	2 42	9 59		Δ	☐			
7	22	1	8 36	20 4	3 19	11 5						
8	22	7	8 48	20 41	3 56	12 8			*			
9	22	14	9 1	21 18	4 34	13 8	☐					
10	23	21	9 14	21 55	5 13	14 5	♈					
11	22	37	9 27	22 32	5 53	14 59	♈	♈	h		*	
12	22	34	9 40	23 9	6 34	15 50						
13	22	41	9 53	23 47	7 15	16 37				C		
14	23	48	10 5	24 24	7 57	17 20						
15	22	55	10 18	25 1	8 41	18 0						
16	23	2	10 31	25 38	9 26	18 37	*	♈				
17	23	9	10 44	26 15	10 12	19 10						
18	23	16	10 57	26 62	10 59	19 38	♋	*	h	☐	*	
19	23	23	11 10	27 30	11 46	20 2						
20	23	30	1									
21	23	37	1					*	☐	☐		
22	23	44	1						Δ	Δ	♈	Δ
23	23	51	1					☐	Δ	Δ		
24	23	58	1									
25	24	6	1				♈	Δ				
26	24	13	1						♈	♈	Δ	♈
27	24	21	1						♈	♈		
28	24	28	1							☐		
29	24	35	1				Δ	♈				
30	24	43	1						Δ			Δ
31	24	50	1						Δ		h	

AUGUST XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	47	0 N 42	0 N 51	1 N 18	14 N 26	0 N 39	17 N 1
4	15	47	0 42	0 47	1 18	14 18	0 39	17
7	15	48	0 42	0 43	1 18	14 11	0 39	16
10	15	48	0 42	0 39	1 18	14 3	0 39	16
13	15	49	0 42	0 36	1 18	13 56	0 40	16
16	15	49	0 42	0 32	1 18	13 49	0 40	16
19	15	50	0 42	0 29	1 19	13 41	0 40	16
22	15	50	0 42	0 26	1 19	13 33	0 40	15
25	15	51	0 42	0 22	1 19	13 25	0 41	15
28	15	51	0 42	0 18	1 19	13 17	0 41	15
31	15	52	0 42	0 14	1 19	13 10	0 41	15

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♃ Long.	♃ Lat.	♃ Declin.	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	°
1	S	8 38 27	8 Ω 40	1 18 N 7	9 ♂ 0	3 N 8	17 N 28	29 ♉
2	S	8 42 24	9 37 28	17 51 21	28 3 56	21 56	29 3	29 3
3	M	8 46 20	10 34 56	17 36 3	41 4 32	25 22	29 3	29 3
4	Tu	8 50 17	11 32 26	17 20 15	43 4 56	27 36	29 3	29 3
5	W	8 54 13	12 29 57	17 4 27	89 5 6	28 33	29 4	29 4
6	Th	8 58 10	13 27 29	16 48 9	31 5 42	28 10	29 4	29 4
7	F	9 2 7	14 25 2	16 31 21	22 4 48	26 30	29 4	29 4
8	S	9 6 3	15 22 37	16 15 3	Ω 15 4 20	23 40	29 5	29 5
9	S	9 10 0	16 20 13	16 57 15	11 3 40	19 48	29 5	29 5
10	M	9 13 56	17 17 50	15 40 27	12 2 50	15 7	29 5	29 5
11	Tu	9 17 53	18 15 28	15 22 9	♉ 19 1 52	9 49	29 5	29 5
12	W	9 21 49	19 13 8	15 5 21	34 0 48	4 5	0 ♊	0 ♊
13	Th	9 25 46	20 10 48	14 46 4	♊ 0 0 8	19 18	53 0	0
14	F	9 29 42	21 8 29	14 28 16	38 1 27	7 53	0	0
15	S	9 33 39	22 6 11	14 9 29	32 2 32	13 41	0 1	0 1
16	S	9 37 36	23 3 55	13 51 12	♋ 41 3 30	19 0	0 1	0 1
17	M	9 41 32	24 1 39	13 32 26	17 4 18	23 31	0 1	0 1
18	Tu	9 45 29	24 59 24	13 12 10	♌ 13 4 53	26 50	0 2	0 2
19	W	9 49 25	25 57 11	12 53 24	31 5 11	28 31	0 2	0 2
20	Th	9 53 22	26 54 58	12 33 9	♍ 9 5 8	28 16	0 2	0 2
21	F	9 57 18	27 52 46	12 13 24	3 4 46	26 1	0 3	0 3
22	S	10 1 15	28 50 36	11 53 9	♎ 4 4 42	1 55	0 3	0 3
23	S	10 5 11	29 48 28	11 33 24	3 3 5 16	25 0	0 3	0 3
24	M	10 9 8	0 ♍ 46	20 11 12	8 × 53 1 54	10 0	0 4	0 4
25	Tu	10 13 5	1 44 14	10 52 23	25 0 37	3 11	0 4	0 4
26	W	10 17 1	2 42 10	10 31 7	♏ 33 0 N 41	3 N 37	0 4	0 4
27	Th	10 20 58	3 40 8	10 10 21	16 1 54	10 3	0 5	0 5
28	F	10 24 54	4 38 7	9 49 4	♐ 32 2 58	15 50	0 5	0 5
29	S	10 28 50	5 36 8	9 28 17	25 3 51	20 45	0 5	0 5
30	S	10 32 47	6 34 12	9 7 29	56 4 32	24 35	1	1
31	M	10 36 44	7 32 17	8 45 12	♑ 11 4 59	27 14	1	1

AUGUST XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	1 N 1	10 N 25	3 S 36	19 N 41	4 S 48	10 N 55	2 39
4	1 0	9 42	3 26	20 0	4 54	11 28	2 29
7	0 59	8 58	3 16	20 12	4 44	12 18	2 20
10	0 58	8 16	3 5	20 21	4 17	13 19	2 10
13	0 56	7 29	2 53	20 30	3 37	14 23	2 1
16	0 55	6 44	2 41	20 32	2 49	15 21	1 51
19	0 54	5 58	2 28	20 34	1 56	16 6	1 42
22	0 53	5 13	2 16	20 30	1 3	16 32	1 32
25	0 51	4 26	2 2	20 21	0 15	16 34	1 23
28	0 49	3 41	1 51	20 5	0 N 27	16 9	1 13
31	0 48	2 50	1 36	19 46	1 1	15 17	1 4

D M	h	♈	♉	♊	♋	Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋
	°	'	°	'	°	'						
1	24 58	14 52	0 5	37 23	2 17	54	☐		☐	Δ		
2	25 5 14	13 6	15 23	58 17	15			☐				☐
3	25 13 14	26 6	52 24	55 16	31		Δ			☐		
4	25 20 14	39 7	30 25	52 15	43	♀ * h	*		*			*
5	25 28 14	52 8	8 26	49 14	56	♀ ☉ ♈	☐	*			♈	
6	25 35 15	5 8	45 27	47 14	7						*	
7	25 43 15	18 9	23 28	45 13	21	☉ ☉ ♈						
8	25 50 15	32 10	1 29	44 12	38	☉ ☉ ♈	☉	*				♈
9	25 58 15	45 10	39 0	44 11	53		☉		☉			☉
10	26 6 15	58 11	17 1	43 11	11			☉	☉		*	
11	26 13 16	11 11	55 2	43 10	34						☉	
12	26 21 16	24 12	33 3	42 10	2							
13	26 29 16	38 13	11 4	42 9	35			☉			☐	*
14	26 36 16	51 13	49 5	43 9	14		*		*			
15	26 44 17	4 14	27 6	45 9	0				*			
16	26 51 17	17 15	5 7	46 8	54				☐	*	Δ	☐
17	26 59 17	30 15	43 8	48 8	D 54		☐	*	☐			
18	27 6 17	43 16	21 9	49 9	1						☐	Δ
19	27 14 17	57 16	59 10	51 9	17		Δ	☐	Δ	Δ		
20	27 21 18	10 17	37 11	54 9	39						♈	
21	27 29 18	23 18	15 12	57 10	10	☉ ☉ h		Δ			Δ	
22	27 37 18	36 18	54 14	1 10	50							♈
23	27 44 18	49 19	32 15	4 11	37		♈		♈	♈		
24	27 52 19	2 20	10 16	7 12	29							
25	28 0 19	15 20	49 17	11 13	29			♈			♈	Δ
26	28 7 19	28 21	27 18	16 14	35							
27	28 15 19	41 22	6 19	21 15	48					Δ		☐
28	28 23 19	54 22	44 20	26 17	8		Δ		Δ			☐
29	28 30 20	7 23	23 21	31 18	33					☐	*	☐
30	28 38 20	20 24	1 22	36 20	3			Δ	☐		Δ	
31	28 46 20	33 24	40 23	41 21	37	♀ ☉ ♈	☐					

SEPTEMBER XXX DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	54	0 N 42	0 N 11	1 N 20	13 N 7	0 N 42	15 N 15
4	15	54	0 42	0 7	1 20	13 0	0 42	15 3
7	15	55	0 42	0 2	1 20	13 52	0 42	14 51
10	15	56	0 42	0 8 4	1 20	13 45	0 42	14 39
13	15	57	0 41	0 7	1 21	13 37	0 43	14 27
16	15	57	0 41	0 11	1 21	12 29	0 43	14 15
19	16	58	0 41	0 15	1 22	12 22	0 44	14 4
22	16	59	0 41	0 19	1 22	12 15	0 44	13 52
25	16	0	0 41	0 24	1 22	12 7	0 45	13 40
28	16	0	0 41	0 29	1 22	12 0	0 45	13 27

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	♂ Long.	♂ Lat.	♂ Declin	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Tu	10 40 40	8 m 30 24	8 N 33	24 14	5 N 13	28 N 33	1 9
2	W	10 44 37	9 28 34	8 2 6 59	5 13 28 32	1 12		
3	Th	10 48 34	10 26 45	7 40 18	1 5 0 27 12	1 18		
4	F	10 52 30	11 24 53	7 17 29 53	4 33 24 39	1 19		
5	S	10 56 27	12 23 14	6 55 11 2 48	3 55 21 2	1 22		
6			13 21 31	6 33 23 50	3 6 16 31	1 26		
7			14 19 51	6 10 6 m 0	2 8 11 19	1 30		
8			15 18 12	5 48 18 20	1 4 5 36	1 33		
9			16 16 35	5 25 0 51	0 8 5 0 8 25	1 37		
10			17 14 59	5 3 13 34	1 15 6 30	1 41		
11			18 13 26	4 40 26 29	2 22 12 26	1 46		
12			19 11 54	4 17 9 m 39	3 23 17 55	1 49		
13			20 10 23	3 54 23 8	4 14 28 38	1 53		
14			21 8 54	3 31 6 f 42	4 51 26 14	1 57		
15			22 7 27	3 8 20 36	5 13 28 20	2 1		
16			23 6 1	2 45 4 v 44	5 16 28 39	2 4		
17			24 4 37	2 21 19 6	5 0 27 3	2 8		
18			25 3 14	1 58 3 m 36	4 24 29 39	2 12		
19			26 1 54	1 35 18 11	3 32 18 45	2 16		
20			27 0 35	1 11 2 x 45	2 25 12 46	2 19		
21			28 59 17	0 48 17 14	1 10 6 8	2 23		
22	Tu	12 3 28	28 58 2	0 25 1 r 30	0 N 9 0 N 44	2 27		
23	W	12 7 25	29 56 48	0 1 15 29	1 25 7 25	2 30		
24	Th	12 11 21	0 55 37	0 8 23 29 7	2 35 18 35	2 34		
25	F	12 15 18	1 54 27	0 44 12 24	3 34 18 58	2 38		
26	S	12 19 14	2 53 20	1 9 25 18	4 31 24 20	2 41		
27	S	12 23 11	3 52 15	1 32 7 53	4 54 26 29	2 45		
28	M	12 27 7	4 51 13	1 56 20 11	5 13 28 18	2 49		
29	Tu	12 31 4	5 50 13	2 19 25 15	5 17 28 44	2 53		
30	W	12 35 0	6 49 16	2 43 14 11	5 7 27 48	2 57		

SEPTEMBER XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	0 N 48	2 N 36	1 S 31	19 N 42	1 N 10	14 N 53	1 r 1
4	0 46	1 46	1 18	19 14	1 31	13 27	0 51
7	0 45	1 1	1 5	18 40	1 44	11 39	0 42
10	0 43	0 13	0 53	18 12	1 48	9 36	0 32
13	0 42	0 S 35	0 39	17 37	1 46	7 28	0 23
16	0 41	1 23	0 27	16 49	1 39	5 4	0 13
19	0 39	2 11	0 14	16 7	1 27	2 42	0 4
22	0 37	2 59	0 3	15 12	1 13	0 20	29 x 54
25	0 36	3 47	0 N 9	14 21	0 55	2 S 1	29 45
28	0 34	4 35	0 19	13 19	0 37	4 18	29 35

D M	h	♈	♉	♊	♋	♌	Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "								

OCTOBER XXXI DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	1	0 N 41	0 S 34	1 N 23	11 N 53	0 N 46	13 N 18
4	16	1	0 41	0 39	1 23	11 47	0 46	13 1
7	16	2	0 41	0 44	1 24	11 40	0 46	12 55
10	16	3	0 41	0 49	1 24	11 34	0 46	12 45
13	16	4	0 41	0 54	1 25	11 27	0 47	12 34
16	16	5	0 41	0 57	1 25	11 21	0 48	12 24
19	16	5	0 41	1 1	1 26	11 15	0 49	12 14
22	16	6	0 41	1 4	1 26	11 9	0 49	12 4
25	16	7	0 41	1 8	1 27	11 4	0 50	11 55
28	16	7	0 41	1 12	1 27	10 59	0 50	11 46
31	16	8	0 41	1 17	1 28	10 54	0 51	11 37

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	♄ Long.	♄ Lat.	♄ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Th	12 38 58	7 ^h 48 20	3 S 6	26 ^h 3	4 N 45	25 N 37	3 ^h 1
2	F	12 42 54	8 47 28	3 29	7 ^h 56	4 10	22 20	3 5
3	S	12 46 50	9 46 37	3 53	19 58	3 24	18 6	3 9
4	S	12 50 46	10 45 49	4 16	1 ^h 59	2 29	13 6	3 12
5	M	12 54 42	11 45 3	4 39	14 18	1 26	7 30	3 16
6	Tu	12 58 38	12 44 20	5 2	26 51	0 17	1 31	3 19
7	W	13 2 34	13 43 38	5 25	9 ^h 40	0 S 53	4 S 39	3 23
8	Th	13 6 30	14 42 59	5 48	22 44	2 2	10 45	3 27
9	F	13 10 26	15 42 21	6 11	6 ^m 5	3 6	16 29	3 31
10	S	13 14 23	16 41 46	6 34	19 40	4 1	21 32	3 35
11	S	13 18 20	17 41 12	6 57	3 ^h 27	4 42	25 29	3 39
12	M	13 22 16	18 40 40	7 20	17 23	5 8	27 58	3 43
13	Tu	13 26 12	19 40 10	7 42	1 ^h 27	5 15	28 42	3 46
14	W	13 30 9	20 39 42	8 5	15 36	5 3	27 34	3 51
15	Th	13 34 5	21 39 14	8 27	29 47	4 33	24 40	3 54
16	F	13 38 2	22 38 51	8 49	13 ^m 59	3 46	20 16	3 58
17	S	13 41 58	23 38 27	9 11	28 10	2 46	14 43	4 2
18	S	13 45 55	24 38 6	9 33	12 ^m 16	1 35	8 26	4 5
19	M	13 49 52	25 37 46	9 55	26 16	0 20	1 47	4 9
20	Tu	13 53 48	26 37 28	10 17	10 ^h 7	0 N 56	4 N 52	4 13
21	W	13 57 45	27 37 12	10 38	23 46	2 7	11 12	4 16
22	Th	14 1 41	28 36 58	11 0	7 ^h 10	3 10	16 55	4 20
23	F	14 5 38	29 36 46	11 21	20 17	4 2	21 43	4 23
24	S	14 9 34	0 ^m 36 36	11 42	3 ^h 7	4 39	25 22	4 27
25	S	14 13 31	1 36 28	12 3	15 40	5 3	27 43	4 31
26	M	14 17 27	2 36 22	12 23	27 58	5 12	28 39	4 34
27	Tu	14 21 24	3 36 18	12 44	10 ^h 3	5 6	28 11	4 37
28	W	14 25 21	4 36 17	13 4	21 59	4 48	26 24	4 41
29	Th	14 29 17	5 36 18	13 24	3 ^h 51	4 17	23 28	4 45
30	F	14 33 14	6 36 22	13 44	15 42	3 36	19 34	4 48
31	S	14 37 10	7 36 27	14 4	27 39	2 44	14 53	4 51

OCTOBER XXXI DAYS.

	Mars.		Venus.		Mercury.		Moon's
2	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	Node.
	°	'	°	'	°	'	°
0 N 33	58	22	0 N 30	12 N 19	0 N 16	68 32	29 26
0 31	6	9	0 39	11 9	0 S 4	8 41	29 16
0 30	6	56	0 49	10 3	0 25	10 45	29 7
0 28	7	43	0 58	8 49	0 46	12 43	28 57
0 27	8	30	1 6	7 36	1 7	14 35	28 48
0 25	9	15	1 14	6 17	1 27	16 20	28 38
0 24	10	1	1 19	5 0	1 46	17 57	28 29
0 23	10	46	1 24	3 36	2 3	19 25	28 19
0 21	11	31	1 30	2 17	2 18	20 45	28 10
0 19	12	16	1 33	0 52	2 31	21 54	28 0
0 17	12	58	1 38	0 34	2 41	22 53	27 51

Lat.	Long.	♂	♀	♀	Mutual Aspts.	Lunar Aspects.						
						☉	♂	♀	♂	♀	♂	
1 2	30 26	51 14	54 28	59 17	16							
2 37 27	3 15	33 0	10 18	54		■	*					
2 44 27	14 16	13 1	21 30	31						*		*
2 50 27	25 16	53 2	32 28	7	♀ ☉ ♀			☉	☉		☉	
2 57 27	36 17	33 3	43 28	42								
3 4 27	47 18	13 4	54 2									
3 10 27	58 18	53 6	59									
3 16 28	9 19	33 7	17 2						*	☉		☉
3 23 28	20 20	13 8	28 2					*			*	
3 29 28	31 20	53 9	40									
3 35 28	41 21	34 10	51 2	69	♀ * ♀		*	☐	☐			
3 41 28	52 22	14 12	3 4	29		*		☐	☐	*	☐	*
3 47 29	2 23	54 13	15 5	59			☐	Δ	Δ			*
3 53 29	12 23	34 14	27 7	27		☐					Δ	
3 59 29	22 24	14 15	39 8	55			Δ			☐		
4 5 29	32 24	55 16	51 10	23								☐
4 11 29	42 25	35 18	3 11	50		Δ		☉	☉	Δ		Δ
4 17 29	52 26	16 19	15 13	16								
4 23 0	2 26	56 20	26 14	41							☉	
4 29 0	12 27	37 21	40 16	5			☉					
4 35 0	22 28	17 22	53 17	28		☉			Δ	☉		
4 40 0	31 28	58 23	6 18	51				Δ				
4 46 0	41 29	39 25	19 20	13	☉ ☉ ☉						Δ	☉
4 51 0	51 0	19 26	32 21	34	☉ * ♀		Δ	☐	☐			
4 56 1	0 1	0 27	45 22	53	☉ * ♀							
5 1 1	1	10 28	55 24	11					*	Δ	☐	
5 6 1	11	21 0	11 25	28		Δ	☐	*				
5 11 1	2	2 1	24 26	45								Δ
5 16 1	31	13 2	38 28	0	☉ * ♀	☐	☐			☐	*	
5 21 1	4	14 3	51 29	18	♀ ☉ ♀							
5 26 1	5	5 5	4 0	28						☉		☐

NOVEMBER XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	10	0 N 42	1 S 19	1 N 29	10 N 53	0 N 51	11 N 34
4	16	10	0 42	1 23	1 29	10 49	0 51	11 26
7	16	11	0 42	1 27	1 30	10 44	0 52	11 18
10	16	12	0 42	1 31	1 30	10 40	0 53	11 10
13	16	12	0 42	1 34	1 31	10 36	0 54	11 3
16	16	13	0 42	1 37	1 32	10 33	0 54	10 57
19	16	14	0 42	1 40	1 33	10 30	0 55	10 51
22	16	14	0 42	1 42	1 33	10 27	0 56	10 46
25	16	15	0 42	1 45	1 34	10 25	0 57	10 41
28	16	15	0 42	1 49	1 35	10 22	0 57	10 36

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☿ Long.	☿ Lat.	☿ Declin	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	S	14 41 7	8 m 36 35	14 S 23	9 m 47	1 N 45	9 N 31	4 m 54
2	M	14 45 3	9 36 45	14 42	22 9	0 39	3 43	4 58
3	Tu	14 49 0	10 36 57	15 1	4 m 50	0 S 29	2 S 22	5 1
4	W	14 52 56	11 37 11	15 20	17 52	1 38	8 32	5 5
5	Th	14 56 53	12 37 27	15 39	1 m 17	2 44	14 30	5 8
6	F	15 0 50	13 37 45	15 57	15 2	3 41	19 53	5 11
7	S	15 4 46	14 38 5	16 15	29 5	4 27	24 19	5 14
8	S	15 8 43	15 38 26	16 34	13 21	4 56	27 20	5 17
9	M	15 12 39	16 38 49	16 50	27 45	5 7	28 34	5 20
10	Tu	15 16 36	17 39 13	17 7	12 m 11	4 59	27 52	5 23
11	W	15 20 32	18 39 39	17 24	26 33	4 32	25 19	5 26
12	Th	15 24 29	19 40 6	17 40	10 m 48	3 48	21 12	5 29
13	F	15 28 25	20 40 34	17 56	24 54	2 51	15 55	5 32
14	S	15 32 22	21 41 4	18 12	8 m 50	1 44	9 53	5 35
15	S	15 36 19	22 41 35	18 28	22 35	0 33	3 27	5 38
16	M	15 40 15	23 42 7	18 43	6 m 10	0 N 40	3 N 4	5 40
17	Tu	15 44 12	24 42 40	18 58	19 35	1 50	9 22	5 43
18	W	15 48 8	25 43 15	19 13	28 48	2 52	15 9	5 46
19	Th	15 52 5	26 43 51	19 27	15 51	3 44	20 11	5 48
20	F	15 56 1	27 44 29	19 41	28 42	4 24	24 11	5 51
21	S	15 59 58	28 45 8	19 54	11 20	4 51	26 57	5 54
22	S	16 3 54	29 45 48	20 7	23 46	5 2	28 21	5 56
23	M	16 7 51	0 46 30	20 20	5 m 59	5 0	28 20	5 58
24	Tu	16 11 48	1 47 13	20 33	18 1	4 44	26 57	6 0
25	W	16 15 44	2 47 58	20 45	29 56	4 16	24 21	6 3
26	Th	16 19 41	3 48 45	20 56	11 46	3 37	20 45	6 5
27	F	16 23 37	4 49 33	21 7	23 36	2 49	16 20	6 8
28	S	16 27 34	5 50 23	21 18	5 m 30	1 53	11 15	6 10
29	S	16 31 30	6 51 14	21 29	17 35	0 51	5 42	6 13
30	M	16 35 27	7 52 7	21 39	29 56	0 S 14	0 S 11	6 16

NOVEMBER XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	° /	° /	° /	° /	° /	° /	° /
1	0 N 17	13 S 12	1 N 39	0 S 59	2 S 43	23 S 9	27 x 47
4	0 15	13 53	1 41	1 24	2 47	23 51	27 37
7	0 13	14 35	1 43	3 49	2 45	24 18	27 28
10	0 12	15 16	1 44	5 15	2 35	24 28	27 18
13	0 10	15 55	1 45	6 37	2 15	24 19	27 9
16	0 8	16 33	1 44	8 0	1 43	23 46	26 59
19	0 6	17 10	1 43	9 21	0 57	22 46	26 50
22	0 4	17 45	1 41	10 40	0 N 1	21 17	26 40
25	0 3	18 21	1 39	11 58	1 2	19 34	26 31
28	0 1	18 54	1 36	13 12	1 53	17 55	26 21

D M	♂		♀		♀		Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀	♀
	° /	° /	° /	° /	° /	° /								
1	5 m 31	2 m 1	5 m 46	6 Δ 18	1 f 32	♂ * ♀	*	*	♂	*				
2	5 35	2 9	6 27	7 31	2 39	♀ □ ♀								
3	5 40	2 17	7 8	8 45	3 43	♀ * ♀		♂			♂	*		
4	5 44	2 25	7 49	9 59	4 44	♀ * ♀								
5	5 49	2 33	8 31	11 12	5 43	♀ □ ♀				*	*			
6	5 53	2 41	9 12	12 26	6 38			♂				♂		
7	5 58	2 49	9 54	13 40	7 29				*	□	□			
8	6 2	2 56	10 35	14 54	8 15								*	♂
9	6 6	3 4	11 17	16 8	8 56				□		Δ			
10	6 10	3 11	11 58	17 22	9 33			*		Δ		*	□	
11	6 14	3 18	12 40	18 36	10 3									
12	6 18	3 25	13 21	19 50	10 26				Δ			□	Δ	*
13	6 22	3 32	14 3	21 41	10 42			□					Δ	
14	6 25	3 39	14 45	22 18	10 49					♂	♂	Δ		□
15	6 29	3 45	15 26	23 32	10 47			Δ						
16	6 32	3 51	16 8	24 47	10 37				♂					Δ
17	6 36	3 58	16 49	26 1	10 16									
18	6 39	4 4	17 31	27 15	9 44					Δ	Δ	♂	♂	
19	6 42	4 10	18 13	28 30	9 1							♂		
20	6 45	4 16	18 55	29 43	8 8			♂			□			
21	6 48	4 21	19 37	0 m 59	7 6	♀ □ ♀			Δ	□				♂
22	6 51	4 27	20 19	2 13	5 55	♀ * ♀								
23	6 54	4 32	21 1	3 28	4 38	♀ □ ♀			□	*	*	Δ		
24	6 57	4 35	21 43	4 42	3 18							Δ		
25	6 59	4 42	22 25	5 57	1 54	☉ ♂ ♀		Δ						Δ
26	7 2	4 47	23 7	7 12	0 33	♀ * ♀			*				□	
27	7 4	4 51	23 49	8 26	29 m 17	☉ □ ♀						□	*	□
28	7 6	4 56	24 32	9 41	28 6	☉ * ♀		□		♂	♂		*	
29	7 8	5 0	25 14	10 55	27 3	☉ □ ♀								
30	7 10	5 5	25 56	12 10	26 12	♀ ♂ ♂						*		□

DECEMBER XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	°	'	°	'	°	'	°	'
1	16	15	0 N 42	1 S 52	1 N 36	10 N 21	0 N 58	10 N 32
4	16	15	0 42	1 55	1 36	10 20	0 59	10 29
7	16	16	0 42	1 57	1 37	10 20	1 0	10 26
10	16	16	0 42	1 59	1 38	10 19	1 0	10 24
13	16	16	0 43	2 1	1 39	10 19	1 1	10 23
16	16	16	0 43	2 2	1 39	10 20	1 2	10 22
19	16	17	0 43	2 4	1 40	10 20	1 3	10 22
22	16	17	0 43	2 5	1 41	10 21	1 4	10 23
25	16	17	0 43	2 6	1 42	10 22	1 5	10 24
28	16	17	0 43	2 7	1 42	10 22	1 5	10 26
31	16	17	0 43	2 7	1 43	10 23	1 5	10 29

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☽ Long.	☽ Lat.	☽ Declin	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Tu	16 39 23	8 53 1	21 S 48	12 37	1 S 21	6 S 14	6 19
2	W	16 43 20	9 53 57	21 58 25	43	2 25	12 12	6 21
3	Th	16 47 17	10 54 54	22 6 9	m 16	3 23	17 48	6 23
4	F	16 51 13	11 55 53	22 15 23	17	4 11	22 40	6 25
5	S	16 55 10	12 56 52	22 23 7	f 41	4 45	26 18	6 27
6	S	16 59 6	13 57 53	22 30 22	24	5 0	28 14	6 29
7	M	17 3 3	14 58 54	22 37 7	w 16	4 55	28 11	6 31
8	Tu	17 7 59	15 59 56	22 44 22	9	4 81	26 6	6 33
9	W	17 10 55	17 0 59	22 50 6	m 55	3 48	22 15	6 35
10	Th	17 14 52	18 2 2	22 56 21	27	2 52	17 5	6 37
11	F	17 18 49	19 3 6	23 1 5	x 41	1 45	11 4	6 39
12	S	17 22 46	20 4 10	23 6 19	36	0 34	4 38	6 41
13	S	17 26 42	21 5 15	23 10 3	r 13	0 N 38	1 N 52	6 42
14	M	17 30 39	22 6 20	23 14 16	33	1 47	8 9	6 44
15	Tu	17 34 35	23 7 25	23 17 29	39	2 48	13 59	6 45
16	W	17 38 32	24 8 31	23 20 12	32	3 39	19 6	6 47
17	Th	17 42 28	25 9 37	23 23 25	15	4 19	23 17	6 48
18	F	17 46 25	26 10 43	23 25 7	47	4 46	26 20	6 50
19	S	17 50 22	27 11 50	23 26 20	9	4 58	28 3	6 51
20	S	17 54 19	28 12 57	23 27 2	23	4 57	28 24	6 52
21	M	17 58 16	29 14 4	23 28 14	28	4 42	27 21	6 53
22	Tu	18 2 13	0 w 15	23 28 26	26	4 15	25 4	6 54
23	W	18 6 10	1 16 21	23 28 8	18	3 37	21 42	6 55
24	Th	18 10 6	2 17 30	23 28 20	7	2 49	17 28	6 56
25	F	18 14 3	3 18 39	23 26 1	m 55	1 55	12 35	6 57
26	S	18 18 0	4 19 49	23 24 13	48	0 54	7 13	6 58
27	S	18 21 57	5 21 0	23 21 25	50	0 8	9 31	6 59
28	M	18 25 53	6 22 11	23 19 8	7	1 14	4 8	7 0
29	Tu	18 29 50	7 23 22	23 16 20	44	2 16	10 12	7 1
30	W	18 33 47	8 24 34	23 12 3	m 45	3 14	15 49	7 2
31	Th	18 37 43	9 25 47	23 8 17	15	4 3	20 53	7 3

DECEMBER XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Nodes.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	08 1	19 3 27	1 N 32	14 8 25	2 N 27	16 3 47	26 x 12
4	0 3	19 57	1 28	15 31	2 42	16 30	26 2
7	0 5	20 26	1 23	16 40	2 41	16 30	25 53
10	0 7	20 55	1 18	17 38	2 31	17 6	26 48
13	0 8	21 19	1 12	18 40	2 13	17 59	26 34
16	0 10	21 45	1 5	19 30	1 52	18 59	26 24
19	0 12	22 6	0 59	20 21	1 29	20 2	25 15
22	0 14	22 36	0 52	20 58	1 5	21 2	25 6
25	0 16	22 45	0 45	21 41	0 41	21 56	24 56
28	0 18	23 3	0 38	22 10	0 18	22 45	24 46
31	0 20	23 17	0 30	22 31	0 8 5	22 24	24 37

D	h	☿	♂	♀	♂	Mutual	Lunar Aspects.							
M	Long.	Long.	Long.	Long.	Long.	Aspts.	☉	☿	♂	♀	♂	♀	♂	♀
1	7 12	5 9 26	♂ 39 18	♂ 26 25	♂ 31		* ☉							
2	7 14	5 13 27	22 14	40 24	R 58									
3	7 15	5 16 28	4 16	55 24	40				* *					
4	7 17	5 19 28	47 17	10 24	D 37						♂ ♂ ♂			
5	7 18	5 22 29	29 18	25 24	48		♂ *	☐ ☐						
6	7 20	5 25	0 12 19	40 24	56									
7	7 21	5 28	0 56 20	55 25	16			☐ Δ Δ						
8	7 22	5 31	1 38 22	10 25	45							*	*	
9	7 23	5 33	2 20 23	25 26	23			Δ			*			
10	7 24	5 35	3 3 24	40 27	9		*					☐ ☐		
11	7 25	5 38	3 45 25	55 28	0					♂ ♂	☐			
12	7 26	5 40	4 29 27	10 28	55		☐							
13	7 2	5 42	5 11 28	25 29	53			♂			Δ Δ Δ			
14	7 27	5 43	5 54 29	40 0	♂ 56	♂ ☐ ♀	Δ							
15	7 28	5 44	6 37 0	♂ 55	3						Δ			

♂

Δ

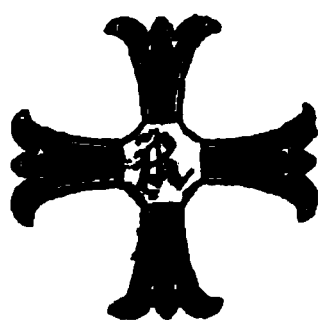
☐

*

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1802.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

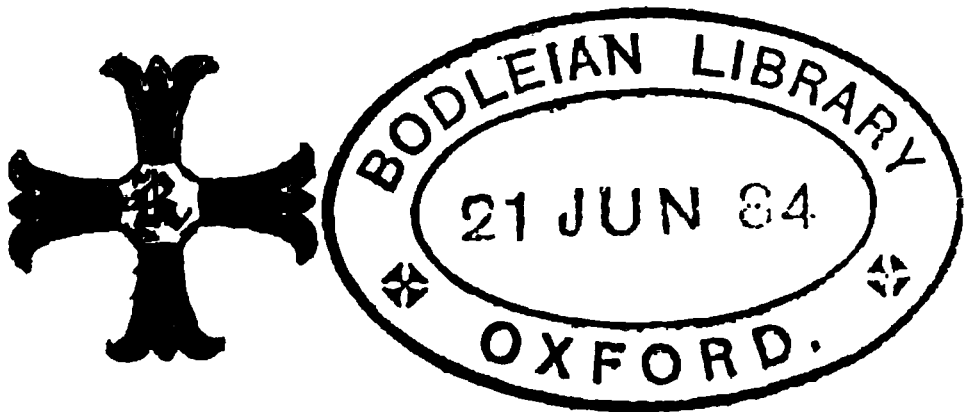
Price One Shilling.

(Hm.) 929 c. 51

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1802.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	°	'	°	'	°	'	°	'
1	16	16	0 N 43	23 8	1 N 44	10 N 27	1 N 6	10 N 29
4	16	16	0 43	2 8	1 44	10 30	1 7	10 32
7	16	16	0 43	2 9	1 45	10 32	1 8	10 36
10	16	16	0 44	2 9	1 45	10 36	1 9	10 41
13	16	17	0 44	2 9	1 46	10 39	1 10	10 46
16	16	17	0 44	2 9	1 47	10 43	1 10	10 52
19	16	17	0 44	2 8	1 48	10 47	1 11	10 58
22	16	18	0 44	2 8	1 48	10 51	1 11	11 4
25	16	18	0 44	2 7	1 49	10 56	1 12	11 11
28	16	18	0 44	2 6	1 49	11 0	1 12	11 18
31	16	18	0 44	2 5	1 49	11 5	1 13	11 25
D M			☉		♄		♃	
			Declin. Long.		Lat. Declin.		Long.	
			° / ' / "		° / ' / "		° / ' / "	
1			23 S 3 1 16		48 39 24 S 59		7 3	
2			23 58 15 45		4 59 27 40		7 3	
3			23 58 0 W 39		5 0 28 27		7 4	
4			23 47 15 48		4 39 27 9		7 4	
5			23 40 1 m 2		3 59 23 50		7 5	
6			22 34 16 10		3 21 18 54		7 5	
7			22 26 1 8		1 54 12 53		7 5	
8			22 18 15 35		0 39 6 17		7 6	
9			22 10 29 42		0 N 36 0 N 26		7 6	
10			22 2 13 24		1 47 6 57		7 6	
11			21 58 26 44		2 50 12 58		7 6	
12			21 48 9 43		3 43 18 16		7 6	
13			21 38 22 25		4 23 22 38		7 6	
14			21 23 4 54		4 50 25 53		7 6	
15			21 12 17 12		5 3 27 53		7 6	
16			21 1 29 21		5 2 28 30		7 6	
17			20 50 11 23		4 48 27 45		7 6	
18			20 38 23 20		4 21 25 44		7 6	
19			20 25 5 13		3 42 22 35		7 6	
20			20 17 3 8		2 55 18 31		7 6	
21	Tu	20 0 31	0 m 49 42 20	0 45 52	1 59 13 45	7 4		
22	F	20 4 28	1 50 43 10	46 0 m 42	0 58 8 27	7 4		
23	S	20 8 24	2 51 43 19	32 22 38	0 8 6 2 50	7 3		
24	S	20 12 31	3 52 43 19	18 4 42	1 11 28 57	7 3		
25	M	20 17 18	4 53 42 19	4 16 58	2 13 8 43	7 2		
26	Tu	20 20 14	5 54 40 18	49 29 32	3 11 14 18	7 1		
27	W	20 24 11	6 55 37 18	34 13 m 28	4 1 19 25	7 0		
28	Th	20 28 7	7 56 35 18	18 25 50	4 39 23 45	6 59		
29	F	20 32 4	8 57 31 18	2 9 40	5 3 26 55	6 58		
30	S	20 36 0	9 58 26 17	46 23 59	5 10 28 29	6 57		
31	S	20 39 57	10 59 21 17	30 8 w 45	4 58 28 6	6 56		

JANUARY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	0 8 20	23 S 21	0 N 28	22 S 46	0 S 12	23 S 35	13 × 33
4	0 22	23 32	0 20	23 4	0 33	24 1	18 23
7	0 24	23 42	0 18	23 15	0 52	24 16	13 14
10	0 26	23 49	0 5	23 17	1 10	24 20	13 4
13	0 28	23 55	0 S 2	23 18	1 26	24 12	12 55
16	0 30	23 58	0 9	23 9	1 39	23 51	12 45
19	0 32	23 59	0 17	22 56	1 50	23 16	12 36
22	0 34	23 57	0 24	22 35	1 58	22 29	12 26
25	0 36	23 54	0 31	22 8	2 3	21 28	12 17
28	0 38	23 49	0 37	21 32	2 5	20 18	12 7
31	0 40	23 41	0 44	20 53	2 2	18 44	11 58

D M	♂		♀		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀
1	7 18	5 39	18 55	22 14	25 13		*	□	□		
2	7 16	5 37	19 39	23 29	26 42					♂	
3	7 14	5 35	20 23	24 44	28 12		☉	□	Δ	♂	♂
4	7 12	5 32	21 7	25 59	29 43						
5	7 10	5 29	21 51	27 14	1 14		Δ				
6	7 8	5 28	22 35	28 29	2 45					*	*
7	7 6	5 23	23 10	29 45	4 17	♀ Δ ♀		♂	♂	*	*
8	7 4	5 19	24 3	1 0	5 49	♀ Δ ♀	*				
9	7 2	5 16	24 47	2 15	7 21	♀ □ ♀				□	□
10	7 0	5 12	25 31	8 31	8 54		♂				□
11	6 57	5 9	26 18	4 46	10 28	♀ Δ ♀	□			Δ	
12	6 55	5 5	26 59	6 1	12 2	♀ Δ ♀		Δ	Δ		Δ
13	6 52	5 1	27 43	7 17	13 36	♀ □ ♀	Δ				Δ
14	6 49	4 56	28 27	8 32	15 11			Δ	□	□	
15	6 46	4 52	29 12	9 47	16 47						
16	6 43	4 47	29 56	11 3	18 23				*	♂	
17	6 40	4 42	0 41	12 18	20 0		♂	□	*		♂
18	6 38	4 37	1 25	13 33	21 37			*			♂
19	6 34	4 32	2 10	14 49	23 14			*			
20	6 31	4 26	2 54	16 4	24 53						
21	6 27	4 21	3 39	17 19	26 31	♂ Δ ♀			♂	♂	Δ
22	6 24	4 15	4 23	18 34	28 10						Δ
23	6 20	4 10	5 8	19 50	29 50					□	Δ
24	6 17	4 4	5 52	21 5	1 31	♂ Δ ♀	Δ	♂			
25	6 13	3 58	6 37	22 20	3 12					□	
26	6 9	3 51	7 21	23 35	4 54	☉ Δ ☿	□		*	*	□
27	6 5	3 45	8 6	24 50	6 37	☉ ☿			*	*	*
28	6 1	3 38	8 51	26 5	8 20		*	*	□	□	*
29	6 57	3 32	9 36	27 21	10 4						
30	6 53	3 25	10 21	28 36	11 49						
31	6 49	3 19	11 6	29 51	13 34		□	Δ	Δ	♂	

FEBRUARY XXVIII DAYS.

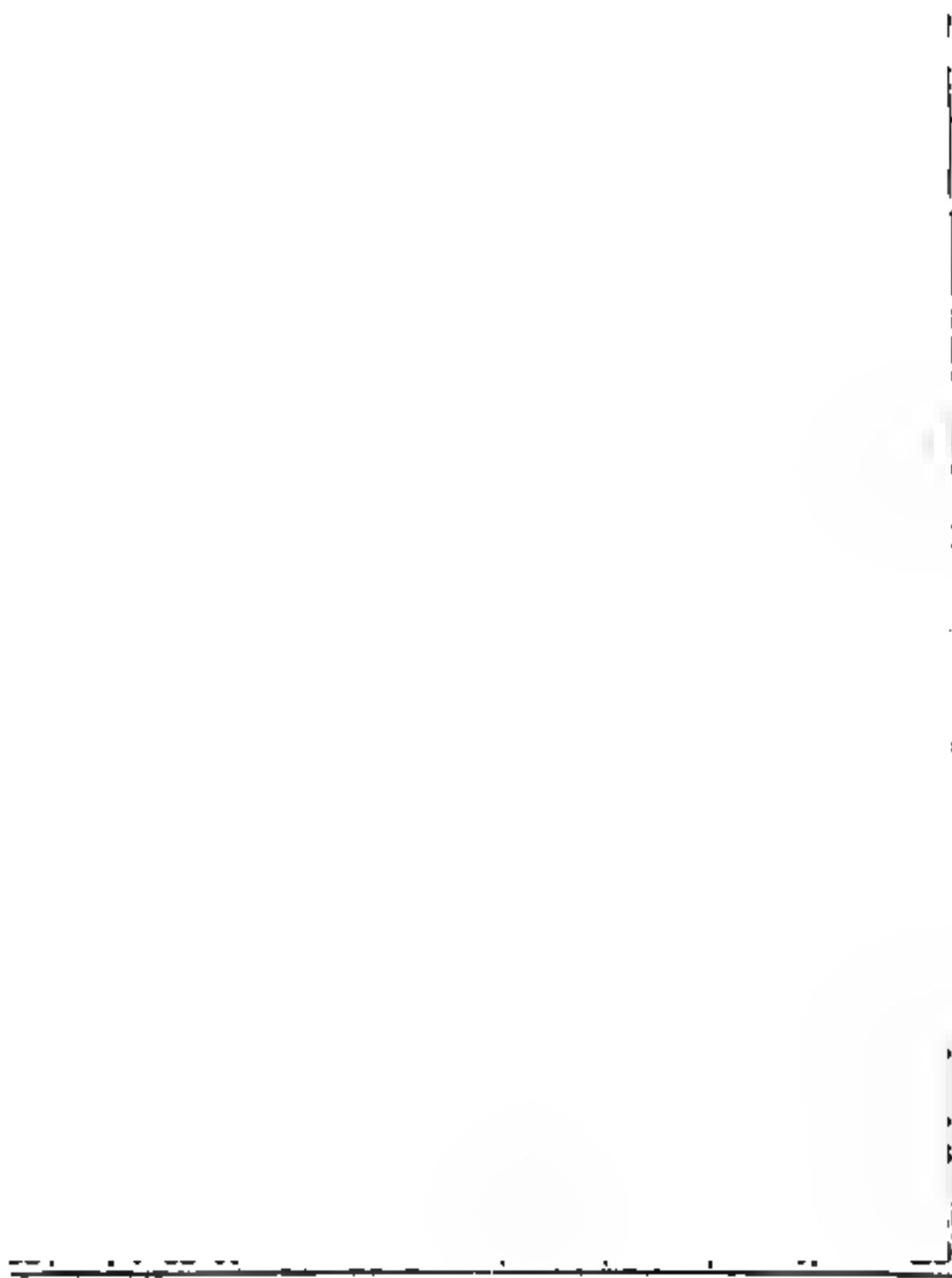
D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
1	16	16	0 44	28 4	1 N 50	11 N 7	1 N 14	11 N 29
4	16	16	0 44	28 2	1 50	11 12	1 14	11 37
7	16	14	0 44	28 0	1 51	11 18	1 15	11 46
10	16	14	0 44	1 58	1 51	11 24	1 15	11 55
13	16	13	0 45	1 56	1 52	11 29	1 15	12 3
16	16	12	0 45	1 54	1 52	11 34	1 15	12 12
19	16	11	0 45	1 48	1 53	11 40	1 16	12 20
22	16	11	0 45	1 51	1 53	11 45	1 16	12 29
25	16	10	0 45	1 48	1 53	11 51	1 16	12 38
28	16	10	0 45	1 45	1 53	11 56	1 16	12 47

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	♄ Long.	♄ Lat.	♄ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	M	20 49 58	12 ^m 0 15	17 8 13	23 ^w 50	4 S 23	25 S 39	6 ^h 54
2	Tu	20 47 50	11 1 7	16 56	9 ^m 7	3 28	21 21	6 53
3	W	20 51 47	14 1 59	16 38	24 23	2 20	15 36	6 51
4	Th	20 55 43	15 2 49	16 20	9 ^x 29	1 3	8 59	6 50
5	F	20 59 40	16 3 37	16 2	24 17	0 N 18	2 0	6 48
6	S	21 0 24	17 4 24	15 44	8 ^r 29	1 35	4 N 53	6 47
7			18 5 10	15 26	23 35	2 44	11 20	6 45
8			19 5 54	15 7	6 ^s 3	3 42	17 2	6 44
9			20 6 36	14 48	19 7	4 26	21 47	6 43
10			21 7 16	14 28	1 ^u 49	4 55	25 23	6 42
11	Th	21 23 18	23 7 55	14 9	14 14	5 11	27 41	6 41
12	F	21 27 14	23 8 32	13 49	26 25	5 12	28 37	6 39
13	S	21 31 10	24 9 7	13 29	8 ^g 26	4 59	28 10	6 38
14	S	21 35 6	25 9 40	13 9	20 21	4 33	26 35	6 36
15	M	21 39 3	26 10 11	12 49	2 ^q 12	3 56	23 31	6 35
16	Tu	21 43 0	27 10 41	12 28	14 2	3 8	19 38	6 33
17	W	21 46 57	28 11 9	12 7	25 52	2 12	14 59	6 31
18	Th	21 50 53	29 11 35	11 46	7 ^w 45	1 10	9 46	6 29
19	F	21 54 50	0 ^x 12 0	11 25	19 42	0 5	4 10	6 27
20	S	21 58 47	1 12 23	11 3	1 ^u 46	1 S 1	1 S 38	6 25
21	S	22 2 44	3 12 45	10 42	18 59	2 6	7 27	6 23
22	M	22 6 41	3 13 5	10 20	26 23	3 5	13 4	6 21
23	Tu	22 10 38	4 13 24	9 58	9 ^m 2	3 57	18 16	6 19
24	W	22 14 35	5 13 40	9 36	21 59	4 38	23 46	6 17
25	Th	22 18 32	6 13 58	9 14	5 ^f 17	5 6	26 18	6 15
26	F	22 22 29	7 14 12	8 52	18 58	5 17	28 16	6 13
27	S	22 26 26	8 14 26	8 29	3 ^w 2	5 10	28 35	6 11
28	S	22 30 23	9 14 38	8 7	17 29	4 43	27 0	6 9

FEBRUARY XXVIII DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	0 34.1	23 3 37	0 34.6	20 3 41	2 3 1	18 3 11	22 55
4	0 43	23 26	0 53	19 52	1 52	16 23	22 45
7	0 45	23 12	0 59	19 2	1 39	14 23	22 36
10	0 47	22 55	1 2	18 8	1 20	12 11	22 26
13	0 48	22 39	1 7	17 6	0 55	9 50	22 17
16	0 50	22 20	1 11	15 57	0 23	7 24	22 7
19	0 52	21 56	1 15	14 50	0 N 14	4 58	21 58
22	0 54	21 32	1 18	13 34	0 56	2 42	21 48
25	0 56	21 5	1 21	12 20	1 40	0 45	21 38
28	0 58	20 34	1 23	11 1	2 23	0 N 43	21 29

D M	♈ Long.	♉ Long.	♊ Long.	♋ Long.	♌ Long.	Mutual Aspects.	Lunar Aspects.						
							☉	♈	♉	♊	♋	♌	♍
1	4 45	2 12											
2	5 41	3 5											
3	5 37	2 58											
4	5 33	2 51											
5	5 29	2 43											
6	5 24	2 36											
7	5 19	2 29											
8	5 15	2 21											
9	5 10	2 14											
10	5 5	2 6											
11	5 1	1 59											
12	4 56	1 51											
13	4 51	1 43											
14	4 47	1 36											
15	4 42	1 28											
16	4 37	1 20											
17	4 32	1 12											
18	4 27	1 4											
19	4 23	0 56											
20	4 18	0 49											
21	4 13	0 41											
22	4 9	0 33											
23	4 3	0 25											
24	3 58	0 17											
25	3 53	0 9											
26	3 49	0 2	0 44	2 24	25 6								
27	3 44	29 54	1 30	3 39	26 47	♀ ♂ ♄ *	☐	Δ	Δ		*		☐
28	3 39	29 46	2 16	4 54	26 20								



APRIL XXX DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	'	'	'	'	'	'
1	16	1	0 N 45	1 S 13	1 N 53	12 N 44	1 N 15	13 N 52
4	16	0	0 45	1 8	1 53	12 47	1 15	13 56
7	16	59	0 45	1 8	1 53	12 50	1 16	13 59
10	16	58	0 45	1 8	1 53	12 52	1 16	14 2
13	16	58	0 45	1 0	1 52	12 54	1 14	14 3
16	16	57	0 45	0 58	1 52	12 56	1 14	14 4
19	16	56	0 45	0 56	1 51	12 58	1 13	14 4
22	16	56	0 45	0 54	1 51	12 59	1 13	14 4
25	16	56	0 45	0 51	1 51	12 59	1 12	14 4
28	16	54	0 45	0 48	1 51	13 0	1 12	14 3
D M	D W	Sidereal Time.	☉ Long.	☉ Declin	♄ Long.	♄ Lat.	♄ Declin	♃ Long.
			'	'	'	'	'	'

APRIL XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	18 15	13 8 46	18 10	4 N 44	08 47	68 34	19 x 47
4	1 17	12 58	1 5	6 12	1 20	6 21	19 38
7	1 18	12 12	1 1	7 42	1 47	5 50	19 28
10	1 19	11 22	0 56	9 6	2 9	5 2	19 19
13	1 20	10 33	0 50	10 33	2 25	3 59	19 9
16	1 21	9 42	0 40	11 54	2 36	2 42	19 0
19	1 22	8 51	0 38	13 16	2 42	1 13	18 50
22	1 23	7 58	0 31	14 32	2 43	0 N 29	18 41
25	1 24	7 7	0 25	15 47	2 39	2 18	18 31
28	1 25	6 13	0 18	16 56	2 30	4 18	18 22
D	h	u	♂	♀	♂	Mutual Lunar Aspects.	
M	Long.	Long.	Long.	Long.	Long.	Aspts.	☉ ☿ ♀ ♀ ♂ ♀ ♀
	° /	° /	° /	° /	° /		

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	54	0 N 45	0 8 46	1 N 50	18 N 0	1 N 11	14 N 1
4	15	54	0 45	0 42	1 50	18 0	1 11	13 58
7	15	53	0 45	0 40	1 49	12 59	1 10	13 55
10	15	52	0 45	0 39	1 49	12 58	1 10	13 52
13	15	51	0 44	0 37	1 49	12 56	1 9	13 48
16	15	51	0 44	0 36	1 49	12 54	1 9	13 44
19	15	50	0 44	0 35	1 48	12 53	1 9	13 40
22	15	50	0 44	0 34	1 48	12 50	1 9	13 38
25	15	49	0 44	0 33	1 47	12 48	1 8	13 27
28	15	49	0 44	0 32	1 47	12 45	1 8	13 21
31	15	48	0 44	0 31	1 47	12 42	1 8	13 16
D M	D W	Sidereal Time. H. M. S.	☉ Long. ° ' "	☉ Declin. ° ' "	♄ Long. ° ' "	♄ Lat. ° ' "	♄ Declin. ° ' "	♃ Long. ° ' "
1	S	2 34 47	10 21 19	14 N 57	3 8 0	3 N 32	15 N 50	3 28 38
2	S	2 38 43	11 19 29	15 15 16	4 18 21	4 18 21	0	3 38 36
3	M	2 42 40	12 17 37	15 33 0	4 50 24	4 50 24	57	3 35
4	Tu	2 46 36	13 15 43	15 50 19	5 27 29	5 27 29	29	3 33
5	W	2 50 33	14 13 47	16 8 26	6 17 5	6 4 28	25	3 31
6	Th	2 54 30	15 11 49	16 25 8	6 49 4	4 43 27	58	3 29
7	F	2 58 26	16 9 50	16 42 21	3 4 19	4 19 26	5	3 28
8	S	3 2 23	17 7 48	16 58 3	4 3 40	3 40 23	3	3 26
9	S	3 6 19	17 5 45	17 14 14	5 57 2	2 51 19	5	3 24
10	M	3 10 16	19 3 40	17 34 26	4 46 1	1 55 14	24	3 22
11	Tu	3 14 12	20 1 33	17 46 5	6 37 0	0 54 9	11	3 20
12	W	3 18 9	20 59 24	18 1 20	35 0 8	0 8 10	3 35	3 18
13	Th	3 22 5	21 57 13	18 17 2	45 1 14	1 14 2	14	3 16
14	F	3 26 2	22 55 1	18 31 15	11 3 16	2 16 8	6	3 15
15	S	3 29 59	23 52 47	18 46 27	56 3 18	3 18 13	45	3 14
16	S	3 33 55	24 50 32	19 0 11	1 1 4	4 1 18	55	3 13
17	M	3 37 52	25 48 15	19 14 24	26 4 37	4 37 23	22	3 12
18	Tu	3 41 48	26 45 56	19 27 8	7 4 58	4 58 25	36	3 11
19	W	3 45 44	27 43 37	19 41 22	7 5 2	5 2 28	15	3 10
20	Th	3 49 41	28 41 17	19 58 6	16 4 47	4 47 23	6	3 9
21	F	3 53 38	29 38 55	20 6 20	29 4 15	4 15 26	6	3 8
22	S	3 57 34	0 36 33	20 18 4	44 3 27	3 27 22	26	3 7
23	S	4 1 31	1 31 9	20 30 18	58 2 26	2 26 17	28	3 6
24	M	4 5 26	2 31 45	20 41 8	7 1 16	1 16 11	33	3 5
25	Tu	4 9 24	3 29 20	20 53 17	11 0 2	0 2 5	6	3 4
26	W	4 13 21	4 26 54	21 3 1	9 1 N 12	1 N 12	1 N 33	3 3
27	Th	4 17 17	5 24 28	21 14 15	0 2 20	2 20 8	4	3 2
28	F	4 21 14	6 22 1	21 24 28	44 3 20	3 20 14	9	3 1
29	S	4 25 10	7 19 32	21 33 12	5 19 4	4 7 19	28	3 0
30	S	4 29 7	8 17 9	21 43 25	43 4 40	4 40 23	44	3 0
31	M	4 33 3	9 14 33	21 52 8	15 4 58	4 58 25	46	2 59

MAY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	18 26	5 S 21	0 S 11	18 N 4	2 S 17	6 N 26	18 × 12
4	1 27	4 28	0 3	19 3	1 59	8 41	18 2
7	1 27	3 33	0 N 4	20 4	1 36	11 1	17 53
10	1 28	2 38	0 11	20 54	1 10	13 23	17 43
13	1 28	1 45	0 19	21 44	0 41	15 44	17 34
16	1 29	0 51	0 27	22 24	0 9	18 0	17 24
19	1 29	0 N 3	0 34	23 3	0 N 22	20 6	17 15
22	1 29	0 57	0 41	23 32	0 52	21 56	17 5
25	1 29	1 50	0 48	23 58	1 19	23 26	16 56
28	1 29	2 43	0 54	24 14	1 40	24 32	16 46
31	1 29	3 36	1 0	24 31	1 56	25 14	16 37

D M	♂		♀		♂		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀
	°	'	°	'	°	'							
1	0 38	25 55	19 × 50	21 8 47	21 7 56					Δ			
2	0 37	25 57	20 36	23 1	23 41			♂			*	♂	
3	0 37	25 59	21 22	24 15	25 29		♂ Δ ♀		Δ	□	□		
4	0 36	26 1	22 8	25 29	27 19		♀ □ ♀						
5	0 36	26 3	22 54	26 43	29 10		♂ Δ ♀			*	*	□	*
6	0 D 36	26 5	23 40	27 57	1 8 3				□				
7	0 37	26 8	24 25	29 10	2 58			*	*			Δ	*
8	0 37	26 11	25 11	0 24	4 54		♀ □ ♀		*			*	□
9	0 37	26 14	25 57	1 37	6 53			□					
10	0 38	26 17	26 42	2 51	8 54					♂	♂		
11	0 39	26 20	27 28	4 4	10 56		♀ Δ ♀					□	Δ
12	0 40	26 23	28 14	5 18	13 0			Δ					
13	0 41	26 27	28 59	6 31	15 5				♂			♂	Δ
14	0 42	26 31	29 45	7 45	17 11								
15	0 43	26 35	0 7	8 58	19 19					*	*		
16	0 45	26 40	1 16	10 12	21 28								
17	0 46	26 44	2 11	11 25	23 38		♂ □ ♀	♂		□	□		♂
18	0 47	26 48	2 47	12 39	25 49		☉ □ ♀		*			Δ	♂
19	0 49	26 53	3 32	13 52	28 1		☉ ♂ ♀				Δ		
20	0 51	26 58	4 18	15 6	0 13		♂ □ ♀		□	Δ		□	
21	0 53	27 3	5 3	16 19	2 24		♂ Δ ♀						
22	0 55	27 8	5 48	17 33	4 35		☉ □ ♀	Δ	Δ			*	Δ
23	0 57	27 13	6 33	18 46	6 46		♂ * ♂					Δ	
24	0 59	27 18	7 18	20 0	8 56			□		♂	♂		□
25	1 1	27 23	8 3	21 13	11 5		☉ Δ ♀					□	
26	1 4	27 29	8 48	22 26	13 12			*	♂				
27	1 6	27 35	9 33	23 40	15 18							♂	*
28	1 9	27 41	10 18	24 53	17 22					Δ	Δ		*
29	1 12	27 47	11 3	26 6	19 24								
30	1 14	27 53	11 48	27 20	21 24		♀ * ♀			□	□		
31	1 17	27 59	12 33	28 33	23 22			♂	Δ			*	

JUNE XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Decl'n.	Lat.	Declin.
1	15	48	0 N 44	0 8 31	1 N 46	12 N 40	1 N 7	12 N 12
4	15	48	0 44	0 81	1 46	12 36	1 7	12 4
7	15	47	0 44	0 81	1 46	12 32	1 6	12 56
10	15	47	0 44	0 81	1 46	12 28	1 6	12 48
13	15	46	0 43	0 81	1 45	12 24	1 5	12 39
16	15	46	0 43	0 82	1 45	12 19	1 5	12 30
19	15	46	0 43	0 82	1 45	12 14	1 5	12 21
22	15	46	0 43	0 82	1 44	12 9	1 5	12 11
25	15	46	0 43	0 83	1 44	12 3	1 4	12 1
28	15	45	0 43	0 85	1 44	11 58	1 4	11 50

D M	D W	Sideraal Time.	☉ Long.	☉ Declin	♄ Long.	♄ Lat.	♄ Declin	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Tu	4 37 0	10 11 12	2 22 N 0	21 11 49	4 N 59	28 N 12	2 59
2	W	4 40 57	11 9 31	22 8	4 28 28	4 46 28	28 10	2 59
3	Th	4 44 53	12 6 58	22 16 16	53	4 20 26	41	2 58
4	F	4 48 50	13 4 24	23 24 29	3	3 41 23	59	2 58
5	S	4 52 46	14 1 49	23 31 11	2	2 54 20	16	2 58
6				23 37 22	53	1 59 15	47	2 57
7				23 43 4	42	1 0 10	44	2 57
8				23 49 16	32	0 8 3	17	2 57
9				23 55 28	30	1 6 0	25	2 57
10				23 0 10	41	2 7 6	11	2 D 57
11				23 4 23	10	3 9 11	51	2 57
12				23 8 6	m 1	3 52 17	11	2 57
13				23 12 19	17	4 30 21	54	2 57
14				23 16 2	f 57	4 54 25	35	2 57
15				23 19 17	0	5 1 27	49	2 58
16				23 21 1	w 22	4 49 28	17	2 58
17				23 23 15	56	4 19 26	48	2 58
18				23 25 0	m 35	3 31 23	29	2 59
19				23 26 15	11	3 30 18	41	2 59
20				23 27 29	41	1 19 12	50	3 0
21	M	5 55 51	29 18 23	23 28 13	x 59	0 4 6	22	3 0
22	Tu	5 59 48	0 15 36	23 28 28	5	1 N 10	0 N 19	3 1
23	W	6 3 44	1 12 50	23 28 11	r 57	2 19 6	52	3 2
24	Th	6 7 41	2 10 4	23 27 25	35	3 19 12	59	3 2
25	F	6 11 37	3 7 17	23 26 9	s 1	4 7 18	25	3 3
26	S	6 15 34	4 4 31	23 24 22	15	4 40 22	52	3 4
27	S	6 19 31	5 1 45	23 22 5	17	4 59 26	6	3 4
28	M	6 23 27	5 58 59	23 20 18	6	5 2 27	56	3 5
29	Tu	6 27 24	6 56 13	23 17 0	z 43	4 50 28	18	3 6
30	W	6 31 20	7 53 27	23 14 18	8	4 24 27	12	3 7

JUNE XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	18 29	3 N 58	1 N 3	24 N 31	1 N 59	25 N 23	16 x 33
4	1 29	4 45	1 8	24 32	2 6	25 34	16 23
7	1 29	5 37	1 14	24 31	2 6	25 25	16 14
10	1 28	6 28	1 19	24 20	1 59	25 0	16 4
13	1 28	7 18	1 24	24 5	1 44	24 21	15 55
16	1 27	8 7	1 28	23 41	1 24	23 31	15 45
19	1 27	8 55	1 32	23 15	0 58	23 34	15 36
22	1 26	9 41	1 36	22 36	0 27	21 31	15 26
25	1 25	10 29	1 38	22 0	0 3 9	20 27	15 17
28	1 24	11 14	1 40	21 14	0 50	19 24	15 7

[illegible]

JULY XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Decl'n.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	45	0 N 42	0 3 36	1 N 43	11 N 51	1 N 3	11 N 39
4	15	45	0 42	0 33	1 43	11 44	1 3	11 28
7	15	45	0 42	0 40	1 43	11 38	1 3	11 17
10	15	46	0 42	0 42	1 43	11 32	1 3	11 5
13	15	46	0 42	0 44	1 42	11 25	1 3	10 53
16	15	46	0 42	0 46	1 42	11 18	1 2	10 41
19	15	46	0 41	0 47	1 42	11 11	1 2	10 28
22	15	46	0 41	0 49	1 42	11 3	1 2	10 15
25	15	47	0 41	0 51	1 42	10 56	1 2	10 2
28	15	47	0 41	0 54	1 42	10 47	1 2	9 49
31	15	47	0 41	0 57	1 42	10 39	1 2	9 35

D M	D W	Sidereal Time.	☿ Long.	☼ Declin.	♂ Long.	♂ Lat.	♂ Declin.	♂ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	Th	6 35 17	8 25 40	23 N 10	25 25 21	3 N 47	24 N 48	3 2 8
2	F	6 39 13	9 47 54	23 6 7 Q 24	3 0 21 20	3 9		
3	S	6 43 10	10 45 7	2 19 18	3 5 17 2	3 10		
4	S	6 47 6	11 44 11	22 1 1 7	1 5 12 6	3 11		
5	M	6 51 3	12 39 34	22 52 12 54	0 2 6 46	3 12		
6	Tu	6 55 0	13 38 47	22 46 24 48	1 3 1 10	3 13		
7	W	6 58 56	14 38 59	22 40 6 40	2 2 4 31	3 15		
8	Th	7 2 53	15 31 12	22 34 18 50	2 59 10 8	3 16		
9	F	7 6 49	16 28 24	22 27 1 18	3 48 15 31	3 18		
10	S	7 10 46	17 15 11	22 20 14 9	4 29 20 22	3 20		
11	S	7 14 42	18 11 11	22 12 27 27	4 55 24 24	3 23		
12	M	7 18 39	19 20 1	22 4 11 11	5 7 27 12	3 24		
13	Tu	7 22 35	20 17 13	21 56 25 23	5 0 28 25	3 26		
14	W	7 26 32	21 14 25	21 47 9 58	4 38 27 38	3 27		
15	Th	7 30 29	22 11 38	21 39 24 50	3 48 24 56	3 29		
16	F	7 34 25	23 8 52	21 29 17 20	17 20 27	3 31		
17	S	7 38 22	24 6 6	21 19 16 14	16 45	3 32		
18	S	7 42 18	25 3 20	21 9 16 8	16 8 13	3 34		
19	M	7 46 15	26 0 35	20 58 1 20	3 1 20	3 36		
20	Tu	7 50 11	26 57 51	20 47 16 5 N 27	3 38			
21	W	7 54 8	27 55 8	20 36 22 25	3 19 11 49	3 40		
22	Th	7 58 4	28 52 10	20 24 6 1	4 9 17 28	3 42		
23	F	8 2 1	29 49 45	20 13 19 19	4 45 22 8	3 44		
24	S	8 5 59	0 Q 47 5	20 0 2 19	5 5 25 38	3 46		
25	S	8 9 54	1 44 23	19 48 15 5	5 10 27 45	3 48		
26	M	8 13 51	2 41 48	19 35 27 37	4 59 28 26	3 50		
27	Tu	8 17 47	3 39 11	19 21 9 58	4 35 27 39	3 52		
28	W	8 21 44	4 36 35	19 8 22 8	3 58 25 34	3 54		
29	Th	8 25 40	5 34 0	18 54 4 Q 10	3 11 23 20	3 56		
30	F	8 29 37	6 31 15	18 40 16 4	2 16 18 12	3 59		
31	S	8 33 33	7 28 18	18 26 27 54	1 10 13 24	4 2		

AUGUST XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	47	0 N 41	1 S 0	1 N 42	10 N 38	1 N 2	9 N 31
4	15	47	0 41	1 4	1 42	10 30	1 2	9 17
7	15	48	0 41	1 7	1 42	10 22	1 1	9 3
10	15	48	0 41	1 11	1 42	10 14	1 1	8 49
13	15	49	0 41	1 14	1 42	10 6	1 1	8 35
16	15	49	0 41	1 17	1 42	9 58	1 1	8 21
19	15	50	0 41	1 20	1 42	9 49	1 1	8 6
22	15	50	0 40	1 23	1 42	9 40	1 1	7 51
25	15	51	0 40	1 27	1 42	9 32	1 1	7 37
28	15	51	0 40	1 31	1 42	9 24	1 1	7 22
31	15	52	0 40	1 35	1 42	9 16	1 1	7 7

D M	D W	Sidereal Time.	☉ Long.	☉ Declin	☽ Long.	☽ Lat.	☽ Declin	♃ Long.
		H. M. S.	°	'	°	'	°	'
1	S	8 37 30	8 Ω 26 19	18 N 10	9 ♍ 40	0 N 12	8 N 8	4 ♌ 5
2	M	8 41 27	9 23 47	17 55	21 27	0 S 52	2 35	4 7
3	Tu	8 45 23	10 21 16	17 40	3 ♌ 17	1 55	3 S 4	4 10
4	W	8 49 20	11 18 45	17 24	15 15	2 53	8 40	4 12
5	Th	8 53 16	12 16 16	17 8	27 25	3 45	14 3	4 15
6	F	8 57 13	13 13 46	16 52	9 ♍ 51	4 27	19 0	4 18
7	S	9 1 9	14 11 18	16 35	22 39	4 57	23 14	4 20
8	S	9 5 6	15 8 50	16 19	5 ♌ 52	5 13	26 26	4 23
9	M	9 9 3	16 6 23	16 2	19 32	5 12	28 14	4 26
10	Tu	9 12 59	17 3 57	15 44	3 ♍ 40	4 52	28 17	4 29
11	W	9 16 56	18 1 32	15 27	18 14	4 14	26 25	4 32
12	Th	9 20 52	18 59 8	15 9	3 ♍ 9	3 17	22 40	4 35
13	F	9 24 49	19 56 45	14 51	18 17	2 6	17 22	4 38
14	S	9 28 45	20 54 23	14 33	3 ♌ 29	0 45	10 57	4 42
15	S	9 32 42	21 52 3	14 14	18 35	0 N 38	3 56	4 45
16	M	9 36 38	22 49 44	13 55	3 ♌ 27	1 58	3 N 10	4 48
17	Tu	9 40 35	23 47 26	13 36	17 58	3 8	9 57	4 51
18	W	9 44 31	24 45 11	13 17	2 ♌ 5	4 4	16 2	4 54
19	Th	9 48 28	25 42 57	12 58	15 48	4 45	21 8	4 56
20	F	9 52 25	26 40 44	12 38	29 6	5 9	25 0	5 0
21	S	9 56 21	27 38 34	12 18	12 ♌ 3	5 17	27 29	5 3
22	S	10 0 18	28 36 25	11 58	24 40	5 9	28 30	5 6
23	M	10 4 14	29 34 18	11 38	7 ♌ 1	4 47	28 3	5 10
24	Tu	10 8 11	0 ♍ 32 13	11 18	19 11	4 12	26 15	5 13
25	W	10 12 7	1 30 10	10 57	1 ♌ 10	3 26	23 16	5 16
26	Th	10 16 4	2 28 9	10 36	13 3	2 32	19 21	5 20
27	F	10 20 0	3 26 9	10 15	24 52	1 32	14 41	5 23
28	S	10 23 57	4 24 11	9 54	6 ♍ 39	0 27	9 30	5 27
29	S	10 27 54	5 22 14	9 33	18 27	0 S 38	4 0	5 31
30	M	10 31 50	6 20 19	9 12	0 ♌ 17	1 42	1 S 40	5 34
31	Tu	10 35 47	7 18 26	8 50	12 12	2 42	7 19	5 37

AUGUST XXXI DAYS.

Mars.		Venus.		Mercury.		Moon's Node.
Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
18 6	18 N21	1 N12	7 N39	3 S 4	18 N42	13 x 20
1 4	18 48	1 5	6 9	2 16	19 16	13 10
1 2	19 16	0 57	4 40	1 28	19 40	13 1
1 0	19 42	0 48	3 10	0 41	19 50	12 51
0 57	20 6	0 40	1 36	0 N 2	19 41	12 42
0 53	20 28	0 30	0 8	0 39	19 6	12 32
0 52	20 50	0 21	1 S30	1 8	18 7	12 22
0 49	21 10	0 11	3 2	1 28	16 45	12 13
0 46	21 28	0 S 1	4 35	1 41	15 3	12 3
0 43	21 44	0 13	6 6	1 46	13 5	11 54
0 39	22 0	0 26	7 34	1 45	10 56	11 44

Long.	Long.	Long.	Long.	Long.	Mutual Aspts.	Lunar Aspects.						
						☉	☿	♈	♉	♊	♋	♌
1 5 42	8 2	26 8	35 13	21 21	39			♈	♈		♈	
2 5 49	8 14	27 15	14 32	21 57						♈		*
3 5 56	8 26	27 54	15 43	22 24			♈					
4 7 3	8 38	28 33	16 54	22 58		*						
5 7 10	8 50	29 12	18 5	23 38								□
5 7 17	9 2	29 51	19 16	24 23		□		*	*			
7 7 25	9 15	0 30	20 27	25 14							*	Δ
8 7 32	9 27	1 9	21 38	26 12			*	□	□	♈		
7 7 39	9 40	1 47	22 49	27 16		Δ					□	
10 7 46	9 52	2 25	24 0	28 26			□	Δ	Δ			
11 7 53	10 5	3 3	25 11	29 42								
12 8 0	10 17	3 41	26 22	1 3			Δ			Δ	Δ	♈
13 8 8	10 30	4 19	27 32	2 29		♈						
14 8 15	10 43	4 56	28 43	4 0	♈ Δ ☿			♈	♈	□		
15 8 23	10 55	5 34	29 53	5 36	♈ * ☿							
16 8 30	11 8	6 11	1 4	7 16	♈ * ♈		♈			*	♈	Δ
17 8 38	11 20	6 49	2 14	9 0		Δ					*	♈
18 8 45	11 33	7 26	3 24	10 47				Δ				
19 8 53	11 46	8 3	4 34	12 37					Δ			□
20 8 0	11 59	8 40	5 44	14 29	♈ ☿ ☿	□	Δ					
21 8 8	12 11	9 16	6 54	16 23	♈ ☿ ☿			□		♈	Δ	*
22 8 15	12 24	9 53	8 4	18 19		*			□			
23 8 23	12 36	10 29	9 14	20 16			□	*			□	
24 8 30	12 49	11 6	10 24	22 14					*			
25 8 38	13 2	11 42	11 33	24 13	♈ Δ ♈		*					
26 8 45	13 15	12 18	12 43	26 12						*	*	
27 8 53	13 28	13 53	13 52	28 11								♈
28 9 0	13 41	15 29	15 2	0 9	♈ ☿ ☿	♈		♈				
29 9 8	13 54	16 11	16 11	2 7					♈	□		
30 9 15	14 7	17 39	17 21	4 5								
31 9 23	14 20	18 14	18 30	6 2			♈			Δ		

AUGUST XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
1	16	47	0 N 41	18 0	1 N 42	10 N 38	1 N 2	9 N 31
4	15	47	0 41	1 4	1 42	10 30	1 2	9 17
7	15	48	0 41	1 7	1 42	10 22	1 1	9 3
10	16	48	0 41	1 11	1 42	10 14	1 1	8 49
13	15	49	0 41	1 14	1 42	10 6	1 1	8 35
16	15	49	0 41	1 17	1 42	9 58	1 1	8 21
19	15	50	0 41	1 20	1 42	9 49	1 1	8 6
22	16	50	0 40	1 23	1 42	9 40	1 1	7 51
25	16	51	0 40	1 27	1 42	9 32	1 1	7 37
28	15	51	0 40	1 31	1 42	9 24	1 1	7 23
31	15	52	0 40	1 35	1 42	9 16	1 1	7 7

D M	D W	Sidereal Time.			☉ Long.	☉ Declin.	♂ Long.	♂ Lat.	♂ Declin.	♂ Long.
		H.	M.	S.	°	'	°	'	°	'
1	S	8	37	30	8 22 26	19 18 N 10	9 40	0 N 12	8 N 8	4 5
2	M	8	41	27	9 23 47	17 55 21	27	0 52	2 35	4 7
3	Tu	8	45	23	10 21 16	17 40 3	17	1 55	3 3 4	4 10
4	W	8	49	20	11 18 45	17 24 15	15	2 53	3 40	4 12
5	Th	8	53	16	12 16 16	17 8 27	25	3 45	14 3	4 15
6	F	8	57	13	13 13 45	16 52 9	51	4 27	19 0	4 18
7	S	9	1	9	14 11 18	16 35 22	39	4 57	23 14	4 20
8	S	9	5	6	15 8 50	16 19 5	52	5 13	26 26	4 23
9	M	9	9	3	16 6 28	16 2 19	32	5 12	28 14	4 26
10	Tu	9	12	59	17 3 57	15 44 8	40	4 52	28 17	4 29
11					18 1 32	15 27 18	14	4 14	26 25	4 32
12					18 59 8	15 9 3	9	3 17	22 40	4 35
13					19 56 45	14 51 18	17	2 6	17 22	4 38
14					20 54 23	14 38 3	29	0 45	10 57	4 42
15					21 52 3	14 14 18	35	0 N 38	3 56	4 45
16					22 49 44	13 55 3	27	1 58	3 N 10	4 48
17					23 47 26	13 36 17	58	3 8	9 57	4 51
18					24 45 11	13 17 25	5	4 4	16 2	4 54
19					25 43 57	12 58 15	48	4 45	21 8	4 56
20					26 40 44	12 38 29	6	5 9	25 0	5 0
21	S	9	56	21	27 38 34	12 18 12	3	5 17	27 29	5 3
22	S	10	0	18	28 36 25	11 58 24	40	5 9	28 30	5 6
23	M	10	4	14	29 34 18	11 38 7	5	4 47	23 3	5 10
24	Tu	10	8	11	0 32 13	11 18 18	11	4 12	26 15	5 13
25	W	10	12	7	1 30 10	10 57 12	10	3 26	23 16	5 16
26					2 28 9	10 36 13	3	2 32	19 21	5 20
27					3 26 9	10 15 24	52	1 32	14 41	5 23
28					4 24 11	9 54 6	39	0 27	9 30	5 27
29					5 22 14	9 33 18	27	0 33	4 0	5 31
30					6 20 19	9 12 0	17	1 42	13 40	5 34
31					7 18 26	8 50 12	12	2 42	7 19	5 37

[No.]		RAPHAEL'S ASTRONOMICAL EPHEMERIS.										19		
SEPTEMBER XXX DAYS.														
D.	Mars.		Venus.		Mercury.		Moon's							
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	Node.							
	°	'	°	'	°	'	°	'						
1	08 38	22 8 5	08 28	8 8 8	1 N 43	10 N 11	11	* 41						
4	0 35	22 18	0 40	9 36	1 35	7 53	11	31						
7	0 31	22 31	0 52	11 4	1 23	5 33	11	22						
10	0 27	22 41	1 6	12 26	1 7	3 11	11	12						
13	0 24	22 51	1 18	13 52	0 49	0 50	11	3						
16	0 20	23 0	1 32	15 11	0 30	1 S 28	10	53						
19	0 16	23 8	1 44	16 31	0 9	3 43	10	44						
22	0 12	23 15	1 57	17 45	0 S 13	5 54	10	34						
25	0 7	23 21	2 9	18 56	0 35	8 1	10	25						
28	0 2	23 27	2 22	20 2	0 57	10 2	10	15						
	h	♈	♉	♊	♋	♌	Mutual	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.	Aspts.	☉	☿	♈	♉	♊	♋	♌	♍
	°	'	°	'	°	'								
1	10 31	14 33	15 49	19 39	7 58								♈	
4	35 14	46 16	23 20	48 9	54	☉♈♉	*		*					*
7	45 14	59 16	57 21	57 11	48	♉♈♊		*		*				
10	53 15	12 17	31 23	6 13	40	☉♈♊		*						
13	1 15	25 18	5 24	15 15	32	♉♈♋	☐		☐	☐	♈		☐	
16	8 15	38 18	39 25	24 17	23			☐				*		
19	16 15	51 19	12 26	33 19	13	♉☐♈	Δ		Δ	Δ			☐	Δ
22	24 16	4 19	45 27	42 21	2								☐	
25	31 16	17 20	17 28	50 22	49	☉♈♋		Δ					Δ	
28	35 16	30 20	50 29	58 24	35							Δ	Δ	
31	46 16	43 21	22 1	6 26	20		♈		♈	♈				♈
4	54 16	56 21	55 2	14 28	4			♈				☐		♈
7	1 17	9 22	27 3	22 29	47			♈						
10	9 17	22 22	58 4	30 1	29						*			
13	16 17	35 23	29 5	37 3	10				Δ			♈		
16	24 17	48 24	0 6	45 4	50						Δ			
19	31 18	1 24	31 7	52 6	29	♉♈♊	Δ	Δ	☐					Δ
22	39 18	14 25	2 9	0 8	7		☐			☐	♈			
25	46 18	26 25	33 10	7 9	44	☉☐♈		☐		*			Δ	☐
28	53 18	39 26	3 11	14 11	20				*	*			Δ	☐
31	1 18	52 26	33 12	21 12	55		*	*						
4	8 19	5 27	2 13	27 14	28	♀*♈		*					☐	*
7	16 19	18 27	31 14	34 16	1							*		
10	23 19	31 28	0 15	41 17	33							*		
13	30 19	44 28	29 16	47 19	4				♈	♈		*		
16	38 19	57 28	57 17	53 20	34		♈	♈				☐		
19	45 20	9 29	24 18	59 22	3			♈						♈
22	52 20	22 29	52 20	4 23	32	♀*♋								
25	0 20	35 0	5 19	21 10	25						Δ			
28	7 20	47 0	47 22	16 26	26				*	*				

SEPTEMBER XXX DAYS.

D M	Sun's. Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Decl.
	'	"	°	'	°	'	°	'
1	15	54	0 N 40	1 S 38	1 N 42	9 N 13	1 N 1	7 N
4	15	54	0 40	1 43	1 42	9 5	1 1	6
7	15	55	0 40	1 48	1 42	8 56	1 1	6
10	15	56	0 40	1 53	1 42	8 47	1 1	6
13	15	57	0 40	1 57	1 43	8 39	1 2	6
16	15	57	0 40	2 1	1 43	8 30	1 2	5
19	15	58	0 40	2 5	1 43	8 22	1 2	5
22	15	59	0 40	2 9	1 43	8 14	1 2	5
25	16	0	0 40	2 13	1 44	8 6	1 2	5
28	16	0	0 40	2 18	1 44	7 58	1 2	4

D M	D W	Sidereal Time.	☉ Long.		☉ Declin.		☽ Long.		☽ Lat.		☽ Declin.		H Lon
			°	'	°	'	°	'	°	'	°	'	
		H. M. S.	°	'	°	'	°	'	°	'	°	'	°
1	W	10 39 43	8 ^m 16	34	8 N 29	24 ^h 15	3 S 36	12 S 45	5 ^h				5 ^h
2	Th	10 43 40	9 14	43	8 7	6 ^m 30	4 20	17 47	5				5
3	F	10 47 36	10 12	54	7 45	18 58	4 53	22 11	5				5
4	S	10 51 33	11 11	6	7 23	1 ^h 45	5 13	25 39	5				5
5	S	10 55 29	12 9	20	7 1	14 53	5 18	27 52	5				5
6	M	10 59 26	13 7	35	6 38	28 25	5 5	28 32	5				5
7	Tu	11 3 23	14 5	51	6 16	12 ^h 21	4 34	27 26	6				6
8	W	11 7 19	15 4	9	5 53	26 43	3 45	24 31	6				6
9	Th	11 11 16	16 2	29	5 31	11 ^m 27	2 40	19 56	6				6
10	F	11 15 12	17 0	50	5 8	26 27	1 24	14 1	6				6
11	S	11 19 9	17 59	13	4 45	11 ^h 37	0 0	7 13	6				6
12	S	11 23 5	18 57	38	4 22	26 46	1 N 23	0 1	6				6
13	M	11 27 2	19 56	4	3 59	11 ^h 47	2 40	7 N 7	6				6
14	Tu	11 30 58	20 54	33	3 36	26 30	3 44	13 43	6				6
15	W	11 34 55	21 53	3	3 13	10 ^h 49	4 33	19 24	6				6
16	Th	11 38 52	22 51	36	2 50	24 41	5 4	23 52	6				6
17	F	11 42 48	23 50	11	2 27	8 ^h 6	5 17	26 54	6				6
18	S	11 46 45	24 48	48	2 4	21 6	5 13	28 22	6				6
19	S	11 50 41	25 47	28	1 40	3 ^h 42	4 54	28 19	6				6
20	M	11 54 38	26 46	10	1 17	16 0	4 22	26 50	6				6
21	Tu	11 58 34	27 44	54	0 54	28 4	3 39	24 8	6				6
22	W	12 2 31	28 43	41	0 30	9 ^h 58	2 46	20 27	6				6
23	Th	12 6 27	29 42	30	0 7	21 47	1 48	15 58	7				7
24	F	12 10 24	0 ^h 41	21	0 S 16	3 ^m 33	0 45	10 55	7				7
25	S	12 14 21	1 40	14	0 40	15 21	0 S 20	5 28	7				7
26	S	12 18 17	2 39	10	1 3	27 13	1 25	0 S 11	7				7
27	M	12 22 14	3 38	7	1 27	9 ^h 10	2 26	5 53	7				7
28	Tu	12 26 10	4 37	7	1 50	21 16	3 21	11 25	7				7
29	W	12 30 7	5 36	9	2 14	3 ^m 31	4 8	16 35	7				7
30	Th	12 34 8	6 35	12	2 37	15 58	4 44	21 9	7				7

OCTOBER XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	0 N 2	23 N 30	2 S 34	21 S 7	1 S 19	11 S 57	10 * 6
4	0 7	23 34	2 46	22 2	1 40	18 45	9 57
7	0 12	23 37	2 57	23 1	2 0	15 26	9 47
10	0 17	23 40	3 8	23 52	2 18	16 59	9 38
13	0 23	23 43	3 18	24 36	2 35	18 22	9 28
16	0 29	23 46	3 28	25 15	2 48	19 34	9 19
19	0 35	23 49	3 36	25 52	2 58	20 38	9 9
22	0 42	23 52	3 45	26 20	3 8	21 17	9 0
25	0 49	23 55	3 50	26 46	3 1	21 44	8 50
28	0 54	23 58	3 55	27 7	2 50	21 46	8 41
31	1 2	24 1	4 0	27 19	2 27	21 20	8 31

D M	♈		♉		♊		Mutual Aspects.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	♈	♉	♊	♋	♌
	°	'	°	'	°	'							
1	14 w 14	21 w 0	1 55 14	23 m 21	27 52	52	☉ ☽ ♈						♋
2	14 21	21 13	1 40	24 26	29 17			*	*	□			♋
3	14 28	21 25	2 5	25 31	0 m 40						□		
4	14 35	21 38	2 30	26 35	2 2	♋ Δ ♋		□	□	Δ		♋	*
5	14 42	21 51	2 55	27 40	3 23					Δ			*
6	14 49	22 3	3 20	28 45									□
7	14 56	22 16	3 45	29 49									
8	15 3	22 28	4 9	0 f 58								Δ	□ Δ
9	15 10	22 41	4 32	1 56									
10	15 17	22 53	4 55	2 59								□	Δ
11	15 24	23 6	5 17	4 2	11 6			♋					
12	15 31	23 18	5 39	5 5	12 18							*	
13	15 37	23 31	6 1	6 8	18 29					Δ	Δ		♋
14	15 44	23 43	6 22	7 10	14 38				Δ				♋
15	15 51	23 56	6 3	8 11	15 44	♀ * ♈		Δ		□			♋
16	15 57	24 8	7 3	9 13	16 48	♀ * ♈					□		
17	16 4	24 20	7 22	10 11	17 50			□	□	*		♋	Δ
18	16 11	24 32	7 42	11 15	18 49				*		*		
19	16 17	24 44	8 1	12 16	19 45	♋ □ ♈			*				
20	16 24	24 56	8 10	13 16	20 38								Δ □
21	16 30	25 8	8 36	14 15	21 29			*					
22	16 36	25 20	8 53	15 13	22 13					♋		*	□
23	16 43	25 32	9 9	16 14	23 54	♀ □ ♈				♋	♋		*
24	16 49	25 44	9 26	17 13	23 30				♋			□	
25	16 55	25 55	9 42	18 12	24 1								*
26	17 1	26 7		19 10	24 26			♋					
27	17 7	26 18		20 8	24 44					*			
28	17 13	26 30		21 5	24 56					*		Δ	
29	17 18	26 41		22 2	25 0			*		*			♋
30	17 24	26 53		23 58	24 55					□	□		♋
31	17 30	27 4		24 53	24 40				□				

OCTOBER XXXI DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Decl.
1	16	1	0 N 40	2 28	1 N 45	7 N 49	1 N 3	4 N
2	16	1	0 40	2 28	1 45	7 41	1 3	4
3	16	2	0 40	2 33	1 46	7 34	1 3	4
4	16	3	0 40	2 38	1 46	7 26	1 3	3
5	16	4	0 40	2 42	1 46	7 19	1 4	3
6	16	5	0 40	2 46	1 46	7 11	1 4	3
7	16	5	0 40	2 49	1 47	7 4	1 4	3
8	16	6	0 40	2 53	1 47	6 57	1 5	2
9	16	7	0 40	2 56	1 48	6 50	1 5	2
10	16	7	0 40	3 0	1 48	6 43	1 5	2
11	16	8	0 40	3 4	1 49	6 37	1 5	2

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♂ Long.	♂ Lat.	♂ Declin.	♂ Lon.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	°
1	V	12 38 0	7 34 17	3 8 0	28 27	5 8 6	24 51	7 2
2	S	12 41 56	8 33 24	3 24 11	29 30	5 14 27	22	7
3	S	12 45 53	9 32 33	3 47 24	30	5 5 28	27	7
4	M	12 49 50	10 31 43	4 10 8	31	4 40 37	53	7
5	Tu	12 53 46	11 30 55	4 21 58	32	3 59 25	37	7
6	W	12 57 43	12 30 9	4 57 21	33	3 21 44	44	7
7	Th	13 1 39	13 29 24	5 20 20	33	1 53 16	29	7
8	F	13 5 36	14 28 41	5 43 5	34	0 34 10	12	7
9	S	13 9 32	15 28 1	6 6 19	35	0 N 47	3 16	8
10	S	13 13 29	16 27 22	6 29 4	35	2 5 8 N 52	8	8
11	M	13 17 26	17 26 45	6 51 19	36	3 14 10	45	8
12	Tu	13 21 22	18 26 10	7 14 4	36	4 10 16	56	8
13	W	13 25 18	19 25 37	7 37 18	37	4 43 23	3	8
14	Th	13 29 15	20 25 6	8 59 2	37	5 25 46	46	8
15	F	13 33 12	21 24 36	8 22 16	38	5 27 53	53	8
16	S	13 37 8	22 24 12	8 44 29	38	4 55 28	28	8
17	S	13 41 5	23 23 48	9 6 12	38	4 26 27	19	8
18	M	13 45 1	24 23 27	9 28 24	39	3 45 24	57	8
19	Tu	13 48 58	25 23 8	9 50 6	39	2 55 21	30	8
20	W	13 52 54	26 22 51	10 11 18	40	1 59 17	15	8
21	Th	13 56 51	27 22 37	10 33 0	40	0 57 12	20	8
22	F	14 0 47	28 22 25	10 54 11	41	0 8 6	7	8
23	S	14 4 44	29 22 15	11 11 23	41	1 10 1	25	8
24	S	14 8 41	0 22 8	11 37 5	42	2 10 48	10	8
25	M	14 12 37	1 22 2	11 56 17	42	3 6 9	58	9
26	Tu	14 16 34	2 21 59	12 18 0	43	3 54 15	11	9
27	W	14 20 30	3 21 58	12 39 12	44	4 31 19	59	9
28	Th	14 24 27	4 21 58	12 59 25	44	5 58 23	56	9
29	F	14 28 23	5 22 1	13 20 8	45	6 52 45	45	9
30	S	14 32 20	6 22 5	13 39 21	45	7 59 28	11	9
31	S	14 36 16	7 22 10	13 59 4	46	8 57 27	59	9

1. The first part of the document is a list of names and dates, which appears to be a table of contents or a list of references. The names are written in a cursive script, and the dates are in a standard font. The list is organized into two columns, with names on the left and dates on the right.

2

NOVEMBER XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	10	0 N 40	3 S 8	1 N 50	6 N 85	1 N 6	2 N 7
4	16	10	0 40	3 12	1 50	6 29	1 6	1 54
7	16	11	0 40	3 16	1 51	6 24	1 7	1 41
10	16	12	0 40	3 21	1 51	6 18	1 7	1 28
13	16	12	0 40	3 25	1 52	6 18	1 8	1 17
16	16	13	0 40	3 28	1 53	6 8	1 8	1 6
19	16	14	0 40	3 31	1 54	6 4	1 9	0 54
22	16	14	0 40	3 34	1 54	6 0	1 9	0 43
25	16	15	0 40	3 37	1 55	5 56	1 10	0 33
28	16	15	0 40	3 40	1 55	5 50	1 10	0 23

D M	D W	Sidereal Time.			☉ Long.	☉ Declin	☾ Long.	☾ Lat.	☾ Declin	♂ Long.	
		H.	M.	S.	°	'	°	'	°	'	
1	M	14	40	13	8 ^m 22	17	14 S 19	18 ^w 32	3 S 59	26 S 7	9 ^h 26
2	Tu	14	44	10	9	22 26	14 38	2 ^m 17	3 16	22 42	9 30
3	W	14	48	6	10	22 36	14 57	16 14	2 2	17 56	9 33
4	Th	14	52	3	11	22 48	15 16	0 ^x 23	0 50	12 8	9 36
5	F	14	55	59	12	23 1	15 34	14 42	0 N 27	5 37	9 40
6	S	14	59	56	13	23 16	15 53	29 9	1 42	1 N 13	9 43
7	S	15	3	52	14	23 32	16 11	13 ^r 42	2 51	8 2	9 46
8	M	15	7	49	15	23 50	16 28	28 14	3 48	14 25	9 50
9	Tu	15	11	45	16	24 9	16 46	12 ^x 39	4 31	19 57	9 53
10	W	15	15	42	17	24 30	17 3	26 50	4 56	24 16	9 56
11	Th	15	19	39	18	24 53	17 20	10 ^h 43	5 2	27 4	9 59
12	F	15	23	35	19	25 17	17 36	24 13	4 52	28 12	10 2
13	S	15	27	32	20	25 44	17 53	7 ^h 19	4 26	27 41	10 5
14	S	15	31	28	21	26 12	18 9	20 1	3 47	25 43	10 8
15	M	15	35	25	22	26 42	18 24	2 ^h 23	2 50	22 33	10 11
16	Tu	15	39	21	23	27 15	18 39	14 28	2 4	18 29	10 15
17	W	15	43	18	24	27 49	18 54	26 22	1 4	13 44	10 18
18	Th	15	47	14	25	28 24	19 9	8 ^m 20	0 1	8 32	10 21
19	F	15	51	11	26	29 2	19 23	19 57	1 S 1	3 3	10 24
20	S	15	55	8	27	29 42	19 37	1 ^h 50	2 1	2 S 35	10 27
21	S	15	59	4	28	30 23	19 51	13 53	2 56	8 11	10 30
22	M	16	3	1	29	31 6	20 4	26 9	3 44	13 35	10 33
23	Tu	16	6	57	0 ^f	31 51	20 17	8 ^m 41	4 23	18 33	10 36
24	W	16	10	54	1	32 37	20 30	21 31	4 18	22 48	10 39
25	Th	16	14	50	2	33 24	20 42	4 ^f 38	5 0	26 0	10 42
26	F	16	18	47	3	34 13	20 53	18 0	4 55	27 49	10 45
27	S	16	22	44	4	35 3	21 5	1 ^w 35	4 34	28 1	10 48
28	S	16	26	40	5	35 54	21 16	15 21	3 56	26 30	10 51
29	M	16	30	37	6	36 46	21 22	29 1	3 5	23 21	10 53
30	Tu	16	34	34	7	37 38	21 36	13 ^m 10	2 1	18 49	10 56

DECEMBER XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	2 N 29	25 N 31	2 S 42	25 S 15	1 N 56	15 S 46	6 × 52
4	2 37	25 43	2 11	24 43	1 37	17 7	6 42
7	2 46	25 55	1 50	24 12	1 15	18 28	6 33
10	2 25	26 6	1 15	23 37	0 53	19 45	6 23
13	3 1	26 18	0 41	23 3	0 31	20 57	6 14
16	3 8	26 27	0 N 0	22 10	0 9	22 0	6 4
19	3 15	26 37	0 43	21 50	0 S 12	22 55	5 55
22	3 20	26 46	1 30	21 3	0 33	23 40	5 45
25	3 25	26 52	2 16	20 34	0 52	24 14	5 36
28	3 29	26 59	2 52	19 55	1 9	24 37	5 26
31	3 32	27 1	3 24	19 22	1 25	24 48	5 17

D M	h		♈		♉		♊		♋		Mutual Aspts.	Lunar Aspects.						
	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌
	°	'	°	'	°	'	°	'	°	'								
1	19 51	2 12	10 40	15 23	19 31	♏ * h												
2	19 54	2 20	10 26	15 44	20 49		☐					☐				Δ	*	Δ
3	19 57	2 28	10 11	16 22	22 10	☉ * h	Δ	♏	♏			Δ	♏	♏	♏	☐		Δ
4	20 0	2 36	9 56	16 18	23 34												☐	
5	20 3	2 44	9 40	16 38	24 58													
6	20 6	2 52	9 23	16 44	26 23												*	
7	20 9	3 0	9 5	16 54	27 49												Δ	♏
8	20 12	3 7	8 47	17 0	29 16							♏	Δ	Δ	Δ			♏
9	20 14	3 14	8 28	17 4	0 44							♏		☐		♏		
10	20 17	3 21	8 9	17 4	2 12										☐	♏		
11	20 19	3 28	7 49	17 4	3 41	♏ * ♏							☐	*			♏	
12	20 21	3 35	7 28	17 4	5 10											*		
13	20 23	3 42	7 6	17 4	6 40	☉ ☐ h	Δ	*										Δ
14	20 25	3 48	6 43	17 2	8 10													
15	20 27	3 55	6 21	16 56	9 41	♏ * h										*		
16	20 28	4 1	5 58	16 42	11 12									♏			Δ	☐
17	20 30	4 8	5 36	16 27	12 43							☐		♏		♏		
18	20 32	4 14	5 13	16 7	14 14							*	♏		♏	☐		*
19	20 33	4 20	4 50	15 44	15 46												☐	
20	20 34	4 25	4 26	15 20	17 18	♏ ☐ ♏										Δ		
21	20 35	4 31	4 8	14 55	18 50									*			*	
22	20 36	4 36	3 39	14 29	20 23	♏ ☐ h									*		*	♏
23	20 37	4 42	3 15	14 2	21 56								*				♏	♏
24	20 38	4 47	2 51	13 34	23 29							♏		☐			♏	♏
25	20 39	4 51	2 27	13 4	25 2	☉ ♏ ♏						☐		☐		☐	♏	♏
26	20 39	4 56	2 4	12 32	26 36									Δ	Δ			
27	20 39	5 1	1 41	11 58	28 10	☉ ☐ ♏							Δ		Δ			
28	20 40	5 5	1 18	11 22	29 44	♀ ☐ h												*
29	20 40	5 10	0 55	10 46	1 18	♀ ♏ ♏						*				Δ	*	
30	20 40	5 14	0 32	10 10	2 52									♏				
31	20 41	5 18	0 9	9 33	4 27	☉ ☉ ♏						☐	♏		♏	☐	☐	☐

DECEMBER XXXI DAYS.

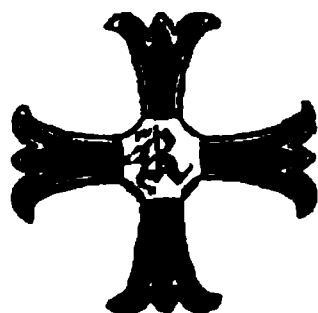
D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	2 N 29	25 N 31	2 S 42	25 S 15	1 N 56	15 S 46	6 × 52
4	2 37	25 43	2 11	24 43	1 37	17 7	6 42
7	2 46	25 55	1 50	24 12	1 15	18 28	6 33
10	2 25	26 6	1 15	23 37	0 53	19 45	6 23
13	3 1	26 18	0 41	23 3	0 31	20 57	6 14
16	3 8	26 27	0 N 0	22 10	0 9	22 0	6 4
19	3 15	26 37	0 43	21 50	0 S 12	22 55	5 55
22	3 20	26 46	1 30	21 3	0 33	23 40	5 45
25	3 25	26 52	2 16	20 34	0 52	24 14	5 36
28	3 29	26 59	2 52	19 55	1 9	24 37	5 26
31	3 32	27 1	3 24	19 22	1 25	24 48	5 17

D M	h	Long.	♄	Long.	♂	Long.	♀	Long.	♂	Long.	Mutual Aspts.	Lunar Aspects.						
												☉	☿	♈	♉	♊	♋	♌
		°		°		°		°		°								
1	19	51	2	12	10	40	15	23	19	31	♂ * h							
2	19	54	2	20	10	26	15	44	20	49		☐					Δ	*
3	19	57	2	28	10	11	16	2	22	10	☉ * h	Δ	♂	♂	♂	☐		Δ
4	20	0	2	36	9	56	16	18	23	34		Δ	♂				☐	
5	20	3	2	44	9	40	16	38	24	58							☐	
6	20	6	2	52	9	23	16	44	26	23							*	
7	20	9	3	0	9	5	16	54	27	49				Δ			Δ	
8	20	12	3	7	8	47	17	0	29	16		♂	Δ		Δ			♂
9	20	14	3	14	8	28	17	4	0	44		♂		☐			♂	
10	20	17	3	21	8	9	17	4	2	12				☐		♂		
11	20	19	3	28	7	49	17	4	3	41	♂ * ♄		☐	*			♂	
12	20	21	3	35	7	28	17	4	5	10				*				
13	20	23	3	42	7	6	17	4	6	40	☉ ☐ h	Δ	*					Δ
14	20	25	3	48	6	43	17	2	8	10		Δ					*	
15	20	27	3	55	6	21	16	56	9	41	♂ * h						*	
16	20	28	4	1	5	58	16	42	11	12				♂			Δ	☐
17	20	30	4	8	5	36	16	27	12	43		☐						
18	20	32	4	14	5	13	16	7	14	14			♂		♂	☐	*	
19	20	33	4	20	4	50	15	44	15	46		*					☐	
20	20	34	4	25	4	26	15	20	17	18	♂ ☐ ♄						Δ	
21	20	35	4	31	4	3	14	55	18	50				*			*	
22	20	36	4	36	3	39	14	29	20	23	♂ ☐ h			*	*		*	
23	20	37	4	42	3	15	14	2	21	56			*					
24	20	38	4	47	2	51	13	34	23	29		♂		☐		♂	♂	♂
25	20	39	4	51	2	27	13	4	25	2	☉ ♂ ♂		☐		☐		♂	♂
26	20	39	4	56	2	4	12	32	26	36				Δ				
27	20	39	5	1	1	41	11	58	28	10	☉ ☐ ♄		Δ		Δ			
28	20	40	5	5	1	18	11	22	29	44	♀ ☐ h							*
29	20	40	5	10	0	55	10	46	1	18	♂ ♂ ♂	*					Δ	*
30	20	40	5	14	0	32	10	10	2	52			♂					
31	20	41	5	18	0	9	9	33	4	27	☉ ♂ ♀	☐	♂		♂	♂	☐	☐

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1803.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

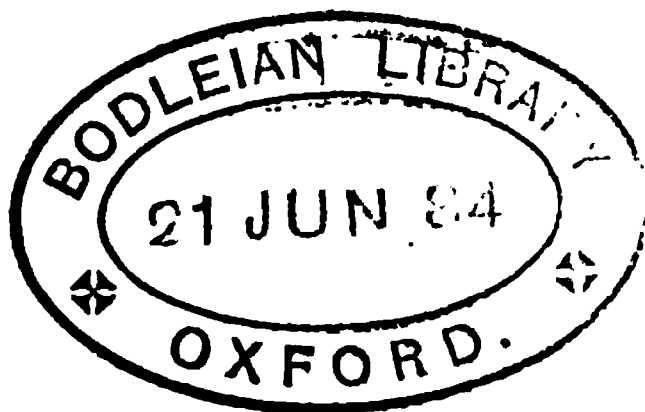
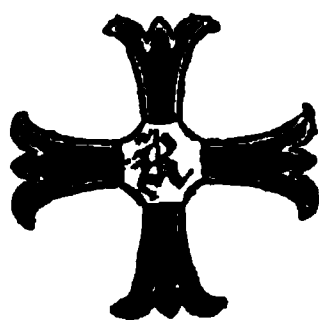
Price One Shilling.

(Hm.) 939

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1803.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	°	'	°	'	°	'	°	'
1	16	15	0 N 42	4 S 2	2 N 5	5 N 37	1 N 19	0 S 55
4	16	15	0 42	4 2	2 6	5 38	1 20	0 58
7	16	16	0 42	4 3	2 7	5 39	1 21	1 1
10	16	16	0 42	4 4	2 7	5 41	1 22	1 3
13	16	17	0 42	4 4	2 8	5 43	1 23	1 4
16	16	17	0 42	4 4	2 9	5 46	1 23	1 5
19	16	17	0 42	4 4	2 10	5 49	1 24	1 5
22	16	18	0 42	4 4	2 11	5 52	1 25	1 4
25	16	18	0 42	4 3	2 12	5 56	1 26	1 3
28	16	18	0 42	4 2	2 12	6 0	1 26	1 1
31	16	18	0 42	4 1	2 12	6 4	1 27	0 58

D M	D W	Sidereal Time.	☉		☉		☽		☽		♃
			Long.	Declin	Long.	Lat.	Declin	Long.			
		H. M. S.	°	'	"	°	'	°	'	°	'
1	S	18 40 43	10 W	12 23	23 S	4 20	26	3 N 43	11 N 26	11	△ 49
2	S	18 44 40	11	13 34	22	59	4 18	4 27	17 10	11	50
3	M	18 48 36	12	14 44	22	54	18 0	4 55	21 56	11	51
4	Tu	18 52 33	13	15 54	22	48	1 32	5 7	25 30	11	51
5	W	18 56 29	14	17 4	22	42	14 53	5 1	27 36	11	52
6	Th	19 0 26	15	18 13	22	35	28 2	4 40	28 7	11	52
7	F	19 4 22	16	19 21	22	28	10 57	4 5	27 4	11	53
8	S	19 8 19	17	20 30	22	20	23 38	3 17	24 38	11	53
9	S	19 12 16	18	21 38	22	12	6 Ω 4	2 21	21 3	11	54
10	M	19 16 12	19	22 46	22	4	18 17	1 19	16 37	11	54
11	Tu	19 20 9	20	23 54	21	55	0 W 18	0 15	11 36	11	55
12	W	19 24 5	21	25 1	21	46	12 11	0 S 50	6 14	11	55
13	Th	19 28 2	22	26 8	21	36	23 59	1 52	0 41	11	55
14	F	19 31 58	23	27 15	21	26	5 △ 47	2 49	4 S 53	11	55
15	S	19 35 55	24	28 22	21	15	17 40	3 40	10 19	11	55
16	S	19 39 51	25	29 29	21	4	29 43	4 21	15 27	11	55
17	M	19 43 48	26	30 35	20	53	12 m 1	4 52	20 5	11	55
18	Tu	19 47 45	27	31 41	20	41	24 38	5 9	23 56	11	55
19	W	19 51 41	28	32 47	20	28	7 † 39	5 11	26 44	11	55
20	Th	19 55 38	29	33 52	20	16	21 6	4 57	28 6	11	55
21	F	19 59 34	0 m	34 57	20	3	4 W 57	4 25	27 47	11	55
22	S	20 3 31	1	36 1	19	50	19 13	3 36	25 39	11	54
23	S	20 7 27	2	37 4	19	36	3 m 46	2 32	21 47	11	54
24	M	20 11 24	3	38 6	19	22	18 31	1 17	16 30	11	53
25	Tu	20 15 20	4	39 8	19	7	3 × 20	0 N 4	10 14	11	53
26	W	20 19 17	5	40 8	18	52	18 6	1 24	3 25	11	52
27	Th	20 23 14	6	41 6	18	37	2 † 42	2 38	3 N 30	11	52
28	F	20 27 10	7	42 4	18	22	17 5	3 41	10 7	11	51
29	S	20 31 7	8	43 0	18	6	1 8 12	4 29	16 6	11	50
30	S	20 35 3	9	43 55	17	50	15 1	5 1	21 9	11	50
31	M	20 39 0	10	44 49	17	34	28 33	5 15	24 57	11	49

JANUARY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	3 N 33	27 N 1	4 N 0	19 S 10	1 S 29	24 S 48	5 x 14
4	3 34	27 2	4 37	18 40	1 42	24 43	5 4
7	3 36	27 3	5 11	18 10	1 53	24 24	4 54
10	3 36	27 2	5 34	17 47	2 0	23 53	4 45
13	3 36	27 1	5 58	17 28	2 5	23 5	4 35
16	3 35	26 59	6 12	17 16	2 6	22 4	4 26
19	3 34	26 56	6 19	17 8	2 2	20 49	4 16
22	3 33	26 53	6 21	17 6	1 55	19 21	4 7
25	3 29	26 50	6 20	17 7	1 41	17 38	3 57
28	3 27	26 47	6 12	17 10	1 22	15 43	3 48
31	3 24	26 44	6 4	17 18	0 56	13 40	3 38

No.	♂		♀		♂		♀		Mutual Aspects.	Lunar Aspects.						
	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.		☉	☽	☿	♂	♀	♂	
1	30	41	5	22	29	46	8	57	6	3						
2	30	40	5	26	29	23	8	19	7	39	☿♂♀			*	Δ	Δ
3	30	40	5	29	29	1	7	42	9	16	☉☐☿	Δ		Δ		
4	30	39	5	32	28	39	7	7	10	51	☿☐☿			Δ		
5	30	39	5	35	28	20	6	33	12	28			Δ	☐		
6	30	38	5	38	28	2	6	0	14	6					♂	
7	30	38	5	41	27	45	5	29	16	42	☿☐☿	♂	☐		☐	♂
8	30	37	5	43	27	26	4	59	17	20	☉♂☿			*		♂
9	30	36	5	45	27	8	4	31	18	59			*			♂
10	30	36	5	47	26	51	4	5	20	38	☿Δ☿					
11	30	34	5	49	26	35	3	41	23	17	☉Δ☿					Δ
12	30	33	5	51	26	20	3	19	23	67						
13	30	32	5	53	26	6	2	58	25	37		Δ		☐		Δ
14	30	30	5	54	26	52	2	41	27	18			♂		☐	
15	30	29	5	55	26	39	2	26	28	59						
16	30	28	5	56	25	27	2	14	0	41		☐				*
17	30	26	5	57	26	16	2	4	2	23						☐
18	30	24	5	58	26	4	1	56	4	5		*		*		
19	30	22	5	58	24	54	1	50	5	48	☿Δ☿		*			*
20	30	20	5	58	24	45	1	47	7	31				☐		
21	30	18	5	58	24	37	1	47	9	16			☐		☐	♂
22	30	16	5	58	24	29	1	49	10	59	☿Δ☿			Δ		♂
23	30	14	5	58	24	22	1	54	12	43		♂			Δ	
24	30	11	5	58	24	16	2	1	14	26			Δ			♂
25	30	8	5	57	24	11	2	11	16	9						*
26	30	6	5	56	24	7	2	22	17	52	☉Δ☿			♂		☐
27	30	3	5	55	24	4	2	35	19	34		*			♂	☐
28	30	0	5	54	24	1	2	50	21	16			♂		*	*
29	19	57	5	52	23	59	3	7	22	56						Δ
30	19	54	5	50	23	58	3	27	24	35	☿Δ♂	☐		Δ		
31	19	51	5	48	23	56	3	50	26	13						☐

FEBRUARY XXVIII DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	15	0 N 43	48 1	2 N 13	6 N 5	1 N 28	08 57
4	16	15	0 43	4 0	2 13	6 10	1 28	0 53
7	16	14	0 43	3 59	2 14	6 15	1 29	0 49
10	16	14	0 43	3 57	2 15	6 20	1 29	0 44
13	16	13	0 43	3 55	2 16	6 25	1 30	0 39
16	16	12	0 43	3 53	2 16	6 30	1 31	0 32
19	16	11	0 43	3 51	2 16	6 36	1 31	0 26
22	16	11	0 43	3 50	2 16	6 42	1 32	0 19
25	16	10	0 43	3 48	2 17	6 47	1 32	0 12
28	16	10	0 43	3 46	2 17	6 53	1 33	0 5

D M	D W	Sidereal Time.			☉ Long.		☉ Declin		☽ Long.		☽ Lat.		☽ Declin		♃ Long.	
		H.	M.	S.	°	'	°	'	°	'	°	'	°	'	°	'
1	Tu	20	42	56	11	m 45 40	17	S 17	11	□ 49	5	N 11	27	N 23	11	△ 49
2	W	20	46	53	12	46 31	17	0	24	49	4	52	28	14	11	□ 48
3	Th	20	50	49	13	47 20	16	42	7	53	4	18	27	33	11	47
4	F	20	54	46	14	48 7	16	25	20	8	3	33	25	27	11	46
5	S	20	58	43	15	48 53	16	7	2	30	2	38	22	11	11	45
6	S	21	2	39	16	49 37	15	49	14	42	1	36	17	59	11	44
7	M	21	6	36	17	50 21	15	30	26	44	0	31	18	6	11	43
8	Tu	21	10	32	18	51 2	15	11	8	m 39	0	S 35	7	48	11	42
9	W	21	14	29	19	51 43	14	52	20	29	1	39	2	15	11	40
10	Th	21	18	25	20	52 23	14	33	2	△ 17	2	39	3	S 20	11	39
11	F	21	22	22	21	53 1	14	14	14	6	3	32	8	49	11	37
12	S	21	26	18	22	53 38	13	54	25	59	4	16	14	1	11	36
13	S	21	30	15	23	54 14	13	34	8	m 1	4	50	18	45	11	34
14	M	21	34	12	24	54 48	14	14	20	16	5	11	22	49	11	33
15	Tu	21	38	8	25	55 22	12	54	2	† 49	5	18	25	56	11	31
16	W	21	42	5	26	55 54	12	33	15	44	5	9	27	50	11	29
17	Th	21	46	1	27	56 25	12	12	29	4	4	44	28	12	11	28
18	F	21	49	58	28	56 55	11	51	12	w 51	4	2	26	52	11	26
19	S	21	53	54	29	57 23	11	30	27	5	3	4	23	47	11	25
20	S	21	57	51	0	× 57 50	11	9	11	m 43	1	53	19	6	11	24
21	M	22	1	47	1	58 16	10	47	26	39	0	32	13	9	11	23
22	Tu	22	5	44	2	58 39	10	25	11	× 46	0	N 52	6	22	11	22
23	W	22	9	41	3	59 1	10	4	26	54	2	12	0	N 47	11	21
24	Th	22	13	37	4	59 21	9	42	11	r 54	3	23	7	49	11	20
25	F	22	17	34	5	59 38	9	19	26	39	4	18	14	18	11	18
26	S	22	21	30	6	59 54	8	57	11	8 2	4	56	19	50	11	15
27	S	22	25	27	8	0 8	8	35	25	1	5	15	24	9	11	12
28	M	22	29	23	9	0 20	8	12	8	□ 36	5	16	26	59	11	9

FEBRUARY XXVIII DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	3 N 23	26 N 48	6 N 8	17 S 21	0 S 46	11 N 08	8 x 35
4	3 20	26 40	5 52	17 30	0 10	10 51	8 25
7	3 16	26 37	5 38	17 39	0 N 32	8 50	8 16
10	3 12	26 34	5 24	17 47	1 18	7 6	8 6
13	3 9	26 32	5 7	17 55	2 7	5 50	8 57
16	3 6	26 30	4 52	18 0	2 51	5 11	8 47
19	3 3	26 27	4 32	18 4	3 25	5 15	8 38
22	3 59	26 25	4 16	18 8	3 42	5 59	8 28
25	3 55	26 22	3 55	18 3	3 40	7 10	8 19
28	2 53	26 20	3 39	18 0	3 19	8 32	8 9

D M	h	Long.	x	Long.	♂	Long.	♀	Long.	♀	Long.	Mutual Aspts.	Lunar Aspects.						
												☉	☿	♈	♉	♊	♋	♌
1	19	48	5	46	23	158	4	13	27	48	☉ Δ ♈	Δ	Δ		Δ			
2	19	45	5	44	23	59	4	41	29	31				□		♈		Δ
3	19	41	5	41	24	1	5	8	0	x 50			□		□		♀	
4	19	38	5	38	24	4	5	37	2	14	♀ □ ♈			*				
5	19	34	5	36	24	7	6	7	3	34				*				
6	19	31	5	33	24	11	6	38	4	49		♈						
7	19	27	5	30	24	16	7	10	5	59								
8	19	24	5	27	24	21	7	45	7	3								
9	19	20	5	23	24	27	8	21	7	57								
10	19	16	5	19	24	34	8	58	8	43								
11	19	12	5	15	24	42	9	36	9	20								
12	19	8	5	11	24	50	10	16	9	48		Δ						
13	19	4	5	7	24	59	10	57	10	8	♀ □ ♈							
14	19	0	5	3	25	8	11	39	10	17	☉ Δ ♂	□						
15	19	56	4	58	25	18	12	22	10	15								
16	18	51	4	53	25	28	13	6	10	1			*	□				□
17	18	47	4	48	25	39	13	51	9	38		*		□		♈		
18	18	43	4	43	25	51	14	37	9	6			□	Δ			♈	*
19	18	38	4	38	26	8	15	24	8	26			Δ		Δ			
20	18	34	4	33	26	16	16	12	7	38			Δ					
21	18	29	4	28			17	1	6	44		♈				Δ		
22	18	25	4	24			17	51	5	43				♈			*	♈
23	18	20	4	19			18	41	4	40	☉ ♂ ♈					□		
24	18	16	4	15			19	32	3	36	♀ Δ ♈		♈		♈			
25	18	11	4	10			20	23	2	32						■	□	*
26	19	7	3	58	27	41	21	15	1	29		*		Δ				
27	18	2	3	52	27	57	22	8	0	29							Δ	□
28	17	57	3	46	28	14	23	2	29	32		□	Δ		Δ			

MARCH XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	10	0 N 43	3 S 44	2 N 18	6 N 55	1 N 34	0 S 1
4	16	9	0 43	3 41	2 18	7 1	1 34	0 N 8
7	16	8	0 43	3 38	2 18	7 6	1 35	0 16
10	16	8	0 43	3 35	2 18	7 12	1 35	0 25
13	16	7	0 44	3 32	2 19	7 18	1 35	0 34
16	16	6	0 44	3 30	2 19	7 24	1 35	0 43
19	16	5	0 44	3 27	2 19	7 29	1 36	0 53
22	16	4	0 44	3 25	2 19	7 34	1 36	1 2
25	16	3	0 44	3 23	2 19	7 39	1 36	1 12
28	16	3	0 44	3 19	2 19	7 44	1 36	1 22
31	16	2	0 44	3 16	2 19	7 49	1 36	1 30

D M	D W	Sidereal Time.			☉ Long.			☉ Declin			♃ Long.		
		H.	M.	S.	°	'	"	°	'	"	°	'	"
1	Tu	22	33	20	10	×	0 29	7	8	49	21	□	47
2	W	22	37	16	11		0 36	7	27	4	☿	38	
3	Th	22	41	13	12		0 41	7	4	17	11	3	46
4	F	22	45	10	13		0 44	6	41	29	29	2	53
5	S	22	49	2	14		0 45	6	18	11	Ω	36	
6	S	22	53	3	15		0 43	5	55	23	35	0	49
7	M	22	56	59	16		0 40	5	31	5	☿	28	
8	Tu	23	0	56	17		0 34	5	8	17	18	1	21
9	W	23	4	52	18		0 26	4	45	29	6	2	22
10	Th	23	8	49	19		0 17	4	21	10	♄	55	
11	F	23	12	45	20		0 0	3	58	22	47	4	4
12	S	23	16	42	20		59 53	3	34	4	♄	45	
13	S	23	20	39	21		59 38	3	11	16	51	5	4
14	M	23	24	35	22		59 22	2	47	29	8	5	15
15	Tu	23	28	32	23		59 4	2	23	11	♄	39	
16	W	23	32	28	24		58 45	2	0	24	29	4	52
17	Th	23	36	25	25		58 23	1	36	7	☿	41	
18	F	23	40	21	26		58 0	1	12	21	17	3	27
19	S	23	44	18	27		57 36	0	49	5	☿	19	
20	S	23	48	14	28		57 9	0	25	19	46	1	8
21	M	23	52	11	29		56 41	0	1	4	×	36	
22	Tu	23	56	7	0	☿	56 11	0	N	22	19	42	
23	W	0	0	4	1		55 38	0	46	4	☿	57	
24	Th	0	4	1	2		55 4	1	10	20	9	3	53
25	F	0	7	57	3		54 28	1	33	5	☿	9	
26	S	0	11	54	4		53 49	1	57	19	48	5	6
27	S	0	15	50	5		53 8	2	20	4	□	1	
28	M	0	19	47	6		52 25	2	44	17	45	5	1
29	Tu	0	23	43	7		51 39	3	7	1	☿	2	
30	W	0	27	40	8		50 51	3	31	13	52	3	53
31	Th	0	31	36	9		50 1	3	54	26	22	3	2

MARCH XXXI DAYS.

D M.	Mars.		Venus.		Mercury.		Moon's Node.							
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.								
	° ' ''	° ' ''	° ' ''	° ' ''	° ' ''	° ' ''	° ' ''	° ' ''						
1	2 N 51	26 N 18	3 N 30	17 S 54	3 N 9	9 S 0	2 × 6							
4	2 48	26 15	3 15	17 42	2 32	10 14	1 57							
7	2 44	26 12	2 52	17 28	1 51	11 13	1 47							
10	2 41	26 8	2 34	17 14	1 8	11 53	1 38							
13	2 37	26 4	2 15	16 45	0 28	12 13	1 28							
16	2 34	26 0	1 58	16 17	0 S 10	12 15	1 19							
19	2 31	25 54	1 39	15 46	0 43	12 0	1 9							
22	2 28	25 48	1 24	15 8	1 12	11 28	0 50							
25	2 25	25 41	1 4	14 29	1 36	10 42	0 40							
28	2 23	25 33	0 51	13 39	1 56	9 42	0 31							
31	2 19	25 25	0 34	12 47	2 11	8 28	0 21							
D	h	♈	♉	♊	♋	Mutual Aspts.	Lunar Aspects.							
M	Long.	Long.	Long.	Long.	Long.		☉	☿	♈	♉	♊	♋	♌	♍
	° ' ''	° ' ''	° ' ''	° ' ''	° ' ''									
1	17 52	3 ♈ 39	28 ♉ 31	23 ♊ 56	28 ♋ 40	♀ Δ ♂			☐					
2	17 47	3 ♈ 38	28 49	24 51	27 ♈ 50					☐	♊			Δ
3	17 42	3 26 29	8 25	46 27	11		Δ	☐	*					
4	17 38	3 19 29	26 26	42 26	42					*			♊	
5	17 33	3 12 29	45 27	38 26	19			*						
6	17 28	3 5	0 ♉ 2	28 35	26 0									♊
7	17 24	2 58	0 22 29	32 25	44							*		
8	17 19	2 51	0 41	0 ♋ 30	25 D 36	☉ ♂ ♈	♊		♊					
9	17 15	2 44	1 1	1 29	25 36					♊	☐	Δ		
10	17 10	2 36	1 21	2 28	25 45	♀ Δ ♈		♊						
11	17 5	2 29	1 42	3 27	25 59									Δ
12	17 0	2 22	2 3	4 26	26 17	♊ ☐ ♈						Δ	☐	
13	16 55	2 14	2 25	5 25	26 38		Δ		*					
14	16 50	2 7	2 47	6 25	27 4				*					☐
15	16 45	1 59	3 9	7 26	27 36			*	☐				*	
16	16 41	1 52	3 32	8 27	28 14			☐						*
17	16 36	1 44	3 54	9 28	28 56				☐		☐	♊		
18	16 31	1 36	4 17	10 30	29 41	♀ Δ ♈	*		Δ					
19	16 27	1 28	4 40	11 32	0 × 28			Δ		Δ			♊	
20	16 22	1 21	5 4	12 34	1 13									
21	16 18	1 13	5 28	13 37	2 13							Δ		♊
22	16 13	1 5	5 52	14 40	3 11	☉ ♂ ♈			♊		♊			
23	16 9	0 57	6 16	15 43	4 12		♊	♊		♊		☐		
24	16 5	0 49	6 40	16 46	5 15								*	
25	16 0	0 41	7 5	17 50	6 19								*	*
26	16 56	0 34	7 30	18 54	7 26	♀ Δ ♂			Δ				☐	
27	16 51	0 26	7 56	19 59	8 36		*	Δ		Δ				☐
28	16 47	0 19	8 21	21 3	9 48					☐			Δ	
29	16 42	0 11	8 47	22 7	11 2						☐			
30	16 36	0 4	9 13	23 12	12 18	☉ ☐ ♂	☐	☐	*			♊		Δ
31	16 34	29 56	9 39	24 16	13 37	☉ ♂ ♈				*				

APRIL XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	16	1	0 N 44	12 13	2 N 18	7 N 51	1 N 36	1 N 33
4	16	0	0 44	3 11	2 18	7 56	1 36	1 31
7	15	59	0 44	3 8	2 18	7 59	1 35	1 50
10	15	58	0 44	3 4	2 18	8 8	1 35	1 56
13	15	58	0 44	3 2	2 17	8 7	1 35	2 6
16	15	57	0 44	3 0	2 17	8 10	1 35	2 13
19	15	56	0 43	2 57	2 17	8 13	1 34	2 20
22	15	56	0 43	2 54	2 17	8 16	1 34	2 26
25	15	55	0 43	2 51	2 16	8 18	1 33	2 33
28	15	54	0 43	2 48	2 16	8 20	1 33	2 37

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♃ Long.	♃ Lat.	♃ Declin.	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	F	0 36 39	10 49 8	4 N 14	8 23 34	2 N 4	20 N 8	9 45 50
2	S	0 39 30	11 48 12	4 40	20 34	1 21 5	21 38	9 44 48
3	S	0 43 26	12 47 15	5 8	2 28	0 8 3	10 35	9 45
4	M	0 47 23	13 46 15	5 26	14 14	1 6 5	11	9 42
5	Tu	0 51 19	14 45 13	5 49	26 1	2 7 0	8 21	9 41
6	W				30	3 2 5	64	9 37
7	Th				31	3 50	11 16	9 34
8	F				32	4 27	16 15	9 32
9	S				33	4 53	20 40	9 29
10	S				34	5 6	24 15	9 26
11	M	1 14 59	20 38 18	6 4	3 4	5 26	46	9 24
12	Tu	1 18 55	21 37 3	8 26	21 9	4 49	27 58	9 21
13	W	1 23 52	22 35 46	8 48	4 1	4 18	27 42	9 20
14	Th	1 26 48	23 34 27	9 10	17 10	3 33	25 53	9 18
15	F	1 30 45	24 33 7	9 31	0 39	3 35	22 34	9 15
16	S	1 34 41	25 31 45	9 53	14 29	1 27	17 54	9 13
17	S	1 38 38	26 30 22	10 14	28 41	0 12	12 8	9 10
18	M	1 42 34	27 28 57	10 35	13 14	1 N 6	5 35	9 7
19	Tu	1 46 31	28 27 30	10 56	28 5	2 20	1 N 23	9 5
20	W	1 50 28	29 26 1	11 17	13 8	3 26	8 21	9 3
21	Th	1 54 24	0 24 31	11 38	28 15	4 18	14 52	9 0
22	F	1 58 21	1 22 59	11 58	13 14	4 51	20 27	8 57
23	S	2 2 17	2 21 25	12 18	27 57	5 4	24 40	8 55
24	S	2 6 14	3 19 48	12 36	12 16	4 58	27 13	8 53
25	M	2 10 10	4 18 11	12 56	26 8	4 34	27 58	8 50
26	Tu	2 14 7	5 16 31	13 18	9 30	5 56	27 8	8 48
27	W	2 18 3	6 14 48	13 37	23 26	6 24	40	8 46
28	Th	2 22 0	7 13 13	13 56	4 57	2 9	21 6	8 43
29	F	2 25 56	8 11 18	14 16	17 10	1 8	16 48	8 41
30	S	2 29 53	9 9 29	14 34	29 9	0 4	11 51	8 39

1. The first part of the document is a list of names and dates.

2. The second part of the document is a list of names and dates.

MAY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	1 N 51	23 N 8	1 S 27	1 S 42	0 S 29	13 N 37	28 ^m 52
4	1 48	22 48	1 33	0 25	0 N 2	16 7	28 42
7	1 46	22 22	1 40	0 N 52	0 34	18 28	28 33
10	1 44	22 0	1 44	2 11	1 4	20 33	28 23
13	1 42	21 38	1 49	3 27	1 31	22 19	28 14
16	1 40	21 12	1 53	4 45	1 52	23 42	28 4
19	1 37	20 49	1 55	6 3	2 7	24 42	27 55
22	1 35	20 23	1 56	7 22	2 15	25 19	27 45
25	1 33	19 55	1 57	8 36	2 15	25 36	27 36
28	1 31	19 26	1 57	9 52	2 9	25 36	27 26
31	1 29	18 56	1 57	11 5	1 54	25 21	27 17

D M	♂		♀		♂		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀
1	14 ^m 2	26 ^m 47	24 ^m 36	29 ^m 4	7 ^m 8	87		Δ	♂				Δ
2	14 ^m 0	26 ^m 43	25 7	0 ^m 13	9 45				♂	♂	*	♂	
3	13 59	26 40	25 38	1 22	11 54		☉ ♂ ♀		♂			♂	
4	13 57	26 36	26 10	2 32	14 4		♀ Δ ♀						
5	13 56	26 33	26 41	3 41	16 14		☉ Δ ♀					□	
6	13 55	26 29	27 12	4 50	18 25		♂ * ♀	♂		*			
7	13 54	26 26	27 44	6 0	20 35					*	Δ		♂
8	13 53	26 23	28 16	7 9	22 44				*			Δ	
9	13 52	26 21	28 48	8 19	24 53		♀ Δ ♀			□			
10	13 52	26 18	29 20	9 29	27 1		♀ ♂ ♀				□		
11	13 51	26 16	29 52	10 38	29 8		♀ * ♂	Δ	□	Δ		□	Δ
12	13 51	26 13	0 ^m 24	11 48	1 ^m 13						Δ	♂	
13	13 51	26 11	0 56	12 58	3 16				Δ			*	
14	13 51	26 9	1 28	14 8	5 17			□					
15	13 51	26 8	2 15	18 18	7 15					♂			□
16	13 D 51	26 6	2 33	16 28	9 11		♀ Δ ♀	*			♂		
17	13 51	26 5	3 6	17 38	11 5				♂			Δ	*
18	13 51	26 4	3 38	18 48	12 56		☉ Δ ♀					♂	
19	13 51	26 3	4 11	19 59	14 45		♀ □ ♀			Δ		□	
20	13 51	26 2	4 44	21 9	16 31			♂			Δ		
21	13 52	26 1	5 17	22 19	18 13				Δ			*	
22	13 52	26 1	5 51	23 30	19 52					□	□	*	♂
23	13 53	26 D 1	6 24	24 40	21 28				□				
24	13 53	26 1	6 57	25 50	23 1					*			
25	13 54	26 1	7 31	27 1	24 31			*			*		□
26	13 55	26 1	8 4	28 11	25 58		♀ □ ♀		*			♂	
27	13 56	26 2	8 37	29 22	27 21							Δ	*
28	13 57	26 2	9 11	0 ^m 32	28 41		♂ * ♀	□					
29	13 58	26 3	9 44	1 43	29 58					♂			
30	13 59	26 4	10 17	2 54	1 ^m 11		☉ Δ ♀				♂		□
31	14 0	26 5	10 51	4 5	2 21			Δ	♂			*	

JUNE XXX DAYS.

D M	Sun's		Herschel.		Saturn.		Jupiter.	
	Semidia.		Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	48	0 N 42	8 N 28	2 N 10	8 N 17	1 N 25	2 N 51
4	15	48	0 42	8 28	2 10	8 14	1 24	2 49
7	15	47	0 42	8 27	2 9	8 11	1 23	2 44
10	15	47	0 42	8 27	2 8	8 8	1 23	2 40
13	15	46	0 42	8 27	2 7	8 5	1 22	2 35
16	15	45	0 42	8 26	2 6	8 4	1 22	2 30
19	15	44	0 42	8 25	2 5	8 3	1 21	2 25
22	15	43	0 42	8 24	2 4	8 2	1 20	2 19
25	15	42	0 42	8 23	2 3	8 1	1 19	2 12
28	15	41	0 42	8 22	2 2	8 0	1 19	2 4

D M	D W	Sideres' Time.	☉ Long.	☉ Declin.	☽ Long.	☽ Lat.	☽ Declin.	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	W	4 36 3	9 58 32	21 N 58	24 50	4 S 16	18 S 36	7 51
2	Th	4 39 59	10 55 58	22 6	6 57	4 44	18 19	7 50
3	F	4 42 56	11 52 22	22 14	19 16	4 59	23 21	7 49
4	S	4 47 53	12 50 45	22 22	1 49	5 0	25 27	7 49
5	S	4 51 49	13 48 8	22 29	14 36	4 46	27 19	7 48
6	M	4 55 46	14 45 21	22 36	27 37	4 17	27 44	7 48
7	Tu	4 59 42	15 42 50	22 42	10 50	3 84	28 35	7 48
8	W	5 3 39	16 40 10	22 48	24 16	2 39	23 53	7 47
9	Th	5 7 35	17 37 30	22 53	7 50	1 33	19 50	7 47
10	F	5 11 32	18 34 50	23 58	21 35	0 21	14 40	7 47
11	S	5 15 28	19 32 8	23 3	5 28	0 N 52	3 42	7 47
12	S	5 19 25	20 29 27	23 7	19 30	2 4	2 16	7 46
13	M	5 23 22	21 26 47	23 11	8 40	3 8	4 N 20	7 46
14	Tu	5 27 18	22 24 42	23 14	17 56	4 2	10 46	7 46
15	W	5 31 15	23 22 11	23 18	2 17	4 40	16 39	7 46
16	Th	5 35 11	24 19 39	23 21	16 38	5 1	21 38	7 46
17	F	5 39 8	25 15 57	23 23	0 55	5 3	25 18	7 46
18	S	5 43 4	26 13 14	23 25	15 2	4 46	27 22	7 46
19	S	5 47 1	27 10 30	23 26	28 54	4 19	27 41	7 46
20	M	5 50 58	28 7 47	23 27	12 28	3 26	28 18	7 47
21	Tu	5 54 54	29 5 8	23 28	25 40	2 29	28 28	7 47
22	W	5 58 51	0 2 3	23 28	8 31	1 25	19 32	7 48
23	Th	6 2 47	0 59 33	23 28	21 2	0 19	14 48	7 48
24	F	6 6 44	1 56 47	23 27	3 17	0 8	47 9	36 7 49
25	S	6 10 40	2 54 0	23 26	15 18	1 49	4 7	7 49
26	S	6 14 37	3 51 14	23 25	27 12	2 46	18 26	7 50
27	M	6 18 33	4 48 28	23 24	9 2	3 36	6 54	7 50
28	Tu	6 22 30	5 45 38	23 23	20 55	4 17	12 8	7 51
29	W	6 26 27	6 42 50	23 22	2 55	4 47	16 59	7 51
30	Th	6 30 23	7 40 12	23 21	15 6	5 4	21 14	7 52

JULY XXXI DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Node.
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
	°	'	°	'	°	'	°
1	1 N 8	12 N 57	1 S 11	20 N 57	4 S 37	18 N 43	25 ^m 38
4	1 6	12 17	1 4	21 23	4 47	18 36	25 28
7	1 4	11 37	0 57	22 0	4 44	18 42	25 19
10	1 2	10 56	0 50	22 20	4 28	18 59	25 9
13	1 0	10 15	0 42	22 42	4 1	19 25	25 0
16	0 58	9 32	0 35	22 53	3 26	19 58	24 50
19	0 56	8 49	0 26	23 1	2 46	20 34	24 41
22	0 54	8 5	0 18	23 0	2 3	21 8	24 31
25	0 52	7 21	0 10	22 56	1 19	21 36	24 22
28	0 50	6 37	0 2	22 41	0 36	21 52	24 12
31	0 48	5 45	0 N 6	22 21	0 N 3	21 51	24 3

D M	♂		♀		♀		Mutual Aspts.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	☿	♂	♀	♂	♀
	°	'	°	'	°	'							
1	15 ^m 33	28 ^m 7	28 ^Ω 49	11 ^Π 0	6 [♄] 15					*	☐		
2	15 37	28 13	29 25	12 12	5 [♅] 40				*	☐		♂	
3	15 42	28 20	0 ^m 1	13 24	5 8						☐		
4	15 46	28 27	0 37	14 36	4 38			♂	☐		Δ		♂
5	15 51	28 34	1 13	15 48	4 2	♀ ☐ ♀				Δ			
6	15 56	28 41	1 49	17 0	3 48				Δ		Δ		
7	16 0	28 48	2 25	18 13	3 28							Δ	
8	16 5	28 55	3 1	19 25	3 12	♂ * ♂					♂		Δ
9	16 10	29 2	3 37	20 37	3 1	☉ * ♀		Δ		♂		☐	
10	16 15	29 9	4 13	21 50	2 56					♂			☐
11	16 20	29 16	4 49	23 2	2 ^D 56			☐	♂				
12	16 25	29 24	5 25	24 14	3 0							Δ	*
13	16 30	29 32	6 2	25 27	3 5					Δ			*
14	16 35	29 40	6 38	26 39	3 23			*			Δ		
15	16 40	29 48	7 15	27 52	3 43				Δ	☐		☐	
16	16 46	29 56	7 51	29 5	4 10						☐	♂	
17	16 51	0 [♄] 4	8 28	0 [♄] 17	4 42	♀ ☐ ♀			☐		*	♂	♂
18	16 56	0 12	9 4	1 30	5 19			♂		*			
19	17 2	0 21	9 41	2 43	6 2				*		*		
20	17 7	0 30	10 17	3 55	6 50								
21	17 13	0 39	10 54	5 8	7 43	♀ ☐ ♀							
22	17 19	0 48	11 31	6 21	8 42					♂		♂	*
23	17 25	0 57	12 8	7 33	9 47	♀ ☐ ♀							*
24	17 31	1 6	12 45	8 46	10 56			*	♂		♂	☐	
25	17 37	1 15	13 22	9 59	12 10	☉ * ♀							☐
26	17 43	1 24	13 59	11 12	13 29			☐					
27	17 49	1 34	14 36	12 25	14 53							*	Δ
28	17 55	1 43	15 13	13 38	16 21					*			
29	18 1	1 53	15 50	14 [♄] 51	17 55	♂ * ♀		Δ	*		*		
30	18 7	2 2	16 27	16 4	19 32					☐		☐	
31	18 13	2 12	17 4	17 17	21 12	♀ * ♂			☐		☐		

AUGUST XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	47	0 N 40	28 51	2 N 1	6 N 29	1 N 12	0 N 10
4	15	47	0 40	28 54	2 1	6 22	1 12	0 S 2
7	15	48	0 40	28 57	2 1	6 18	1 11	0 15
10	15	48	0 40	28 1	2 1	6 5	1 11	0 29
13	15	49	0 39	28 4	2 0	5 57	1 10	0 41
16	15	49	0 39	28 7	2 0	5 49	1 10	0 54
19	15	50	0 39	28 10	2 0	5 40	1 10	1 8
22	15	50	0 39	28 13	2 0	5 31	1 10	1 22
25	15	51	0 39	28 16	2 0	5 23	1 9	1 36
28	15	51	0 39	28 20	2 0	5 15	1 9	1 50
31	15	52	0 39	28 24	2 0	5 6	1 9	2 4

D M	D W	Sidereal Time.	☉ Long.	☉ Declin.	♂ Long.	♂ Lat.	♂ Declin.	♃ Long.
		H. M. S.	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
1	M	8 36 33	8 12 39	18 N 14	14 w 59	33 17	25 S 53	8 42
2	Tu	8 40 30	9 10 3	18 59	23 51	2 12	22 34	8 44
3	W	8 44 26	10 7 28	17 48	13 m 2	0 57	17 50	8 47
4	Th	8 48 23	11 4 55	17 28	27 27	0 N 23	12 1	8 49
5	F	8 52 19	12 2 23	17 12	12 x 0	1 42	5 30	8 52

6								8 54
7								8 57
8								9 0
9								9 3
10								9 5
11								9 7
12								9 10
13								9 13
14								9 16
15								9 17
16								9 20
17								9 23
18								9 26
19								9 29
20								9 32
21								9 36
22								9 39
23								9 42
24								9 45
25								9 49
26	F	10 15 7	2 14 27	10 41	13 34	4 58	27 23	9 51
27	S	10 19 3	3 12 24	10 20	26 18	4 26	27 51	9 54
28	S	10 23 0	4 10 23	9 59	9 w 25	3 40	26 48	9 57
29	M	10 26 57	5 8 22	9 38	23 57	2 41	24 9	10 0
30	Tu	10 30 53	6 6 24	9 17	6 m 55	1 30	20 1	10 4
31	W	10 34 50	7 4 27	8 55	21 18	0 12	14 36	10 7

SEPTEMBER XXX DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
	'	"	°	'	°	'	°	'
1	15	54	0 N 39	3 S 27	2 N 0	5 N 3	1 N 8	2 S 9
4	15	54	0 39	3 31	2 0	4 54	1 8	2 24
7	15	55	0 39	3 36	2 0	4 45	1 8	2 39
10	15	56	0 39	3 41	2 0	4 36	1 8	2 54
13	15	57	0 39	3 44	2 0	4 28	1 7	3 8
16	15	57	0 39	3 48	2 0	4 19	1 7	3 23
19	15	58	0 38	3 52	2 0	4 10	1 7	3 38
22	15	59	0 38	3 55	2 0	4 1	1 7	3 53
25	16	0	0 38	4 0	2 0	3 53	1 7	4 8
28	16	0	0 38	4 5	2 0	3 44	1 7	4 23

D M	D W	Sidereal Time.			☉ Long.		☉ Declin		☽ Long.		☽ Lat.		☽ Declin		♃ Long.	
		H.	M.	S.	°	'	°	'	°	'	°	'	°	'	°	'
1	Th	10	38	46	8	m 2 31	8 N 34	6 x 0	1 N 9	8 S 15	10	11	10	11	10	11
2	F	10	42	43	9	0 37	8 12	20 56	2 27	1 21	10	14	10	14	10	14
3	S	10	46	39	9	58 45	7 50	5 r 57	3 34	5 N 39	10	18	10	18	10	18
4	S	10	50	36	10	56 55	7 28	20 55	4 27	12 17	10	21	10	21	10	21
5	M	10	54	32	11	55 7	7 6	5 x 41	5 1	18 9	10	25	10	25	10	25
6	Tu	10	58	29	12	53 21	6 44	20 10	5 15	22 51	10	28	10	28	10	28
7	W	11	2	26	13	51 37	6 21	4 □ 18	5 10	26 6	10	32	10	32	10	32
8	Th	11	6	22	14	49 54	5 59	18 3	4 46	27 41	10	35	10	35	10	35
9	F	11	10	19	15	48 15	5 36	1 x 26	4 8	27 36	10	38	10	38	10	38
10	S	11	14	15	16	46 37	5 14	14 28	3 18	25 57	10	42	10	42	10	42
11	S	11	18	12	17	45 2	4 51	27 13	2 19	23 0	10	46	10	46	10	46
12	M	11	22	8	18	43 28	4 28	9 Ω 44	1 14	19 1	10	50	10	50	10	50
13	Tu	11	26	5	19	41 57	4 5	22 2	0 7	14 18	10	53	10	53	10	53
14	W	11	30	1	20	40 28	3 42	4 m 11	0 S 59	9 4	10	57	10	57	10	57
15	Th	11	33	58	21	39 1	3 19	16 12	2 2	3 85	11	0	11	0	11	0
16	F	11	37	54	22	37 36	2 56	28 7	2 59	1 S 59	11	3	11	3	11	3
17	S	11	41	51	23	36 13	2 33	9 Δ 59	3 48	7 27	11	7	11	7	11	7
18	S	11	45	48	24	34 52	2 9	21 49	4 26	12 38	11	11	11	11	11	11
19	M	11	49	44	25	33 33	1 46	3 m 39	4 54	17 21	11	15	11	15	11	15
20	Tu	11	53	41	26	32 15	1 23	15 32	5 9	21 26	11	19	11	19	11	19
21	W	11	57	37	27	30 59	0 59	27 31	5 10	24 35	11	23	11	23	11	23
22	Th	12	1	34	28	29 45	0 35	9 † 39	4 58	26 50	11	27	11	27	11	27
23	F	12	5	31	29	28 32	0 13	22 0	4 32	27 45	11	30	11	30	11	30
24	S	12	9	27	0	27 21	0 S 11	4 v 38	3 52	27 15	11	34	11	34	11	34
25	S	12	13	23	1	26 12	0 34	17 38	2 59	25 16	11	38	11	38	11	38
26	M	12	17	20	2	25 4	0 58	1 m 3	1 55	21 49	11	42	11	42	11	42
27	Tu	12	21	17	3	23 58	1 21	14 56	0 42	17 3	11	45	11	45	11	45
28	W	12	25	13	4	22 54	1 45	29 16	0 N 35	11 12	11	49	11	49	11	49
29	Th	12	29	10	5	21 52	2 8	14 x 1	1 53	4 34	11	53	11	53	11	53
30	F	12	33	6	6	20 51	2 31	29 6	3 4	2 N 27	11	57	11	57	11	57

SEPTEMBER XXX DAYS.

D M	Mars.		Venus.		Mercury.		Moon's Nodes
	Lat.	Declin.	Lat.	Declin.	Lat.	Declin.	
1	0 N 29	28 20	1 N 12	13 N 49	0 N 44	3 N 45	22 m 21
4	0 27	3 17	1 16	12 2	0 23	1 29	22 11
7	0 25	4 6	1 19	11 16	0 1	0 3 45	22 2
10	0 23	4 52	1 22	9 54	0 3 22	2 56	21 52
13	0 21	5 42	1 23	8 33	0 46	5 2	21 48
16	0 19	6 31	1 25	7 7	1 9	7 3	21 38
19	0 18	7 16	1 25	5 41	1 33	8 58	21 24
22	0 16	8 3	1 25	4 9	1 56	10 46	21 14
25	0 14	8 50	1 25	2 44	2 18	12 26	21 6
28	0 12	9 36	1 24	1 13	2 38	13 53	20 55

D M	♈		♉		♊		Mutual Aspects.	Lunar Aspects.					
	Long.	Long.	Long.	Long.	Long.	Long.		☉	♈	♉	♊	♋	♌
1	21 54	8 4	7 25	26 28	22 15	22 15	♋ ♈	♋					
2	22 1	8 16	8 4	27 50	23 35	23 35			♋				♋
3	22 9	8 28	8 48	29 4	25 34	25 34			♋		♋		
4	22 18	8 40	9 22	0 18	27 11	27 11							
5	22 24	8 52	10 1	1 34	28 47	28 47		Δ					Δ
6	22 31	9 4	10 40	2 49	0 22	0 22	♋ ♈		Δ				
7	22 39	9 17	11 20	4 1	1 56	1 56		Δ		Δ	Δ	Δ	Δ
8	22 48	9 29	11 59	5 16	3 29	3 29		□		□			
9	22 53	9 41	12 38	6 30	5 1	5 1						*	□
10	23 1	9 54	12 11	7 44	6 31	6 31		*	□		□	□	
11	23 8	10 6	13 57	8 59	8 0	8 0			*	*	*	*	*
12	23 16	10 18	14 36	10 13	9 28	9 28	♋ ♈		*	*	*	*	*
13	23 23	10 31	15 16	11 28	10 55	10 55	♋ ♈						
14	23 31	10 43	15 55	12 42	12 21	12 21							
15	23 38	10 56	16 35	13 57	13 46	13 46	♋ ♈	♋					♋
16	23 46	11 8	17 15	15 15	15 15	15 15			♋	♋	♋		
17	23 53	11 21	17 55	16 20	16 31	16 31	☉ ♈		♋		♋		♋
18	24 1	11 34	18 35	17 41	17 52	17 52						♋	♋
19	24 8	11 47	19 15	18 56	18 12	18 12	♋ ♈						
20	24 16	11 59	19 20	10 20	30	30						*	
								*	*	*	*	*	*
								h	□	□	□	□	□
								Δ	Δ	Δ	Δ	Δ	Δ
										♋		♋	Δ

OCTOBER XXXI DAYS.

D M	Sun's Semidia.		Herschel.		Saturn.		Jupiter.	
			Lat.	Declin.	Lat.	Declin.	Lat.	Declin.
1	16	1	0 N 38	4 S 10	2 N 1	3 N 36	1 N 7	4 S 39
4	16	1	0 38	4 15	2 1	3 26	1 7	4 54
7	16	2	0 38	4 20	2 1	3 18	1 6	5 9
10	16	3	0 38	4 25	2 1	3 10	1 6	5 24
13	16	4	0 38	4 28	2 2	3 2	1 6	5 39
16	16	5	0 38	4 32	2 2	2 54	1 6	5 54
19	16	5	0 38	4 36	2 3	2 45	1 6	6 8
22	16	6	0 38	4 40	2 3	2 38	1 6	6 23
25	16	7	0 38	4 44	2 4	2 30	1 6	6 38
28	16	7	0 38	4 48	2 4	2 22	1 7	6 53
31	16	8	0 38	4 53	2 4	2 15	1 7	7 8

D M	D W	Sidereal Time.			☉ Long.	☉ Declin.	☾ Long.	☾ Lat.	☾ Declin.	♂ Long.					
		H.	M.	S.	°	'	"	°	'	"					
1	S	12	37	8	7	19	53	2 S 55	14	7 22	4 N 3	9 N 24	12	1	
2	S	12	40	59	8	18	57	3 18	29	38	4	44 15	47	12	5
3	M	12	44	56	9	18	3	3 41	14	5 44	5	52 1	8	12	8
4	Tu	12	48	52	10	17	11	4 5	29	30	5	52 5	2	12	12
5	W	12	52	49	11	16	21	4 28	13	11 51	4	46 27	13	12	16
6	Th	12	56	46	12	15	34	4 51	27	43	4	11 27	37	12	20
7	F	13	0	42	13	14	49	5 14	11	7	3	23 26	23	12	23
8	S	13	4	39	14	14	7	5 37	24	6	2	25 23	42	12	27
9	S	13	8	35	15	13	27	6 0	6	43	1	22 19	56	12	31
10	M	13	12	32	16	12	49	6 23	19	4	0	16 15	23	12	35
11	Tu	13	16	28	17	12	14	6 46	1	11	0 S 49	10	18	12	39
12	W	13	20	25	18	11	42	7 9	13	10	1	50 4	55	12	43
13	Th	13	24	21	19	11	11	7 31	25	4	2	47 0 S 35		12	46
14	F	13	28	18	20	10	48	7 54	6	54	3	36 6	3	12	50
15	S	13	32	15	21	10	17	8 16	18	45	4	15 11	17	12	54
16	S	13	36	12	22	9	53	8 38	0	36	4	43 16	7	12	58
17	M	13	40	9	23	9	31	9 1	12	30	4	59 20	21	13	2
18	Tu	13	44	4	24	9	11	9 23	24	26	5	2 23	47	13	6
19	W	13	48	0	25	8	52	9 45	6	31	4	52 26	13	13	10
20	Th	13	52	56	26	8	36	10 6	18	43	4	28 27	26	13	13
21	F	13	55	52	27	8	21	10 28	1	5	3	52 27	19	13	17
22	S	13	59	49	28	8	8	10 49	13	42	3	3 25	48	13	21
23	S	14	3	45	29	7	57	11 11	26	36	2	4 22	53	13	24
24	M	14	7	41	0	7	47	11 32	9	52	0	57 18	43	13	28
25	Tu	14	11	37	1	7	39	11 53	23	33	0 N 15	18	26	13	32
26	W	14	15	34	"	"	"	12 14	7	41	1	29 7	19	13	35
27	Th	14	19	31	"	"	"	12 34	22	15	2	39 0	38	13	39
28	F	14	23	27	"	"	"	12 54	7	12	3	40 6 N 14		13	43
29	S	14	27	24	"	"	"	13 15	28	25	4	27 12	51	13	46
30	S	14	31	14	"	"	"	13 34	7	44	4	54 18	44	13	50
31	M	14	35	16	"	"	"	13 54	28	57	5	1 23	23	13	53

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | |
|--------|-------------------|-------------------|-----------|------------|-------------|------------|-----------|-------------|------------|---------|-------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | | | |
| 1 | 16 | 10 | 0 N 38 | 4 S 55 | 2 N 5 | 2 N 13 | 1 N 7 | 7 S 11 | | | |
| 4 | 16 | 10 | 0 38 | 4 59 | 2 5 | 2 6 | 1 7 | 7 25 | | | |
| 7 | 16 | 11 | 0 38 | 5 3 | 2 6 | 1 59 | 1 7 | 7 39 | | | |
| 10 | 16 | 12 | 0 38 | 5 8 | 2 6 | 1 52 | 1 7 | 7 55 | | | |
| 13 | 16 | 12 | 0 38 | 5 12 | 2 7 | 1 46 | 1 7 | 8 7 | | | |
| 16 | 16 | 13 | 0 38 | 5 15 | 2 7 | 1 40 | 1 7 | 8 20 | | | |
| 19 | 16 | 14 | 0 38 | 5 18 | 2 8 | 1 34 | 1 8 | 8 33 | | | |
| 22 | 16 | 14 | 0 39 | 5 21 | 2 8 | 1 29 | 1 8 | 8 46 | | | |
| 25 | 16 | 15 | 0 39 | 5 24 | 2 9 | 1 23 | 1 8 | 8 59 | | | |
| 28 | 16 | 15 | 0 39 | 5 28 | 2 10 | 1 18 | 1 8 | 9 12 | | | |
| | | | | | | | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | " | |
| 1 | Tu | 14 | 39 | 13 | 8 m 7 | 31 | 14 S 13 | 7 N 54 | 4 N 46 | 26 N 21 | 13 57 |
| 2 | W | 14 | 43 | 9 | 9 7 | 37 | 14 33 | 22 26 | 4 14 | 27 28 | 14 0 |
| 3 | Th | 14 | 47 | 6 | 10 7 | 45 | 14 52 | 6 28 | 3 26 | 26 45 | 14 4 |
| 4 | F | 14 | 51 | 2 | 11 7 | 56 | 15 11 | 20 0 | 2 29 | 24 26 | 14 8 |
| 5 | S | 14 | 54 | 59 | 12 8 | 9 | 15 30 | 3 2 | 1 26 | 20 53 | 14 12 |
| 6 | S | 14 | 58 | 55 | 13 8 | 24 | 15 48 | 15 42 | 0 20 | 16 28 | 14 15 |
| 7 | M | 15 | 2 | 52 | 14 8 | 41 | 16 6 | 28 1 | 0 S 45 | 11 28 | 14 19 |
| 8 | Tu | 15 | 6 | 49 | 15 9 | 0 | 16 24 | 10 m 6 | 1 47 | 6 8 | 14 23 |
| 9 | W | 15 | 10 | 45 | 16 9 | 21 | 16 41 | 22 1 | 2 48 | 0 40 | 14 26 |
| 10 | Th | 15 | 14 | 42 | 17 9 | 44 | 16 59 | 3 51 | 3 31 | 4 S 46 | 14 29 |
| 11 | F | 15 | 18 | 38 | 18 10 | 9 | 17 16 | 15 41 | 4 11 | 10 2 | 14 32 |
| 12 | S | 15 | 22 | 35 | 19 10 | 37 | 17 32 | 27 32 | 4 39 | 14 57 | 14 35 |
| 13 | S | 15 | 26 | 31 | 20 11 | 6 | 17 49 | 9 m 27 | 4 55 | 19 19 | 14 39 |
| 14 | M | 15 | 30 | 28 | 21 11 | 36 | 18 5 | 21 28 | 4 59 | 22 57 | 14 43 |
| 15 | Tu | 15 | 34 | 24 | 22 12 | 9 | 18 20 | 3 35 | 4 4 | 25 37 | 14 46 |
| 16 | W | 15 | 38 | 21 | 23 12 | 43 | 18 36 | 15 50 | 4 25 | 27 6 | 14 50 |
| 17 | Th | 15 | 42 | 17 | 24 13 | 18 | 18 51 | 28 13 | 3 49 | 27 16 | 14 53 |
| 18 | F | 15 | 46 | 14 | 25 13 | 55 | 19 6 | 10 m 45 | 3 1 | 26 3 | 14 56 |
| 19 | S | 15 | 50 | 11 | 26 14 | 33 | 19 20 | 23 28 | 2 4 | 23 27 | 14 59 |
| 20 | S | 15 | 54 | 7 | 27 15 | 12 | 19 34 | 6 m 27 | 0 59 | 19 38 | 15 2 |
| 21 | M | 15 | 58 | 4 | 28 15 | 52 | 19 48 | 19 41 | 0 N 11 | 14 45 | 15 4 |
| 22 | Tu | 16 | 2 | 0 | 29 16 | 33 | 20 1 | 3 15 | 1 22 | 9 3 | 15 7 |
| 23 | W | 16 | 5 | 57 | 0 17 | 15 | 20 14 | 17 10 | 2 30 | 2 46 | 15 10 |
| 24 | Th | 16 | 9 | 53 | 1 17 | 59 | 20 27 | 1 27 | 3 30 | 3 N 47 | 15 12 |
| 25 | F | 16 | 13 | 50 | 2 18 | 43 | 20 39 | 16 6 | 4 18 | 10 18 | 15 15 |
| 26 | S | 16 | 17 | 46 | 3 19 | 28 | 20 51 | 0 59 | 4 50 | 16 21 | 15 18 |
| 27 | S | 16 | 21 | 43 | 4 20 | 15 | 21 2 | 16 1 | 5 1 | 21 27 | 15 21 |
| 28 | M | 16 | 25 | 40 | 5 21 | 3 | 21 13 | 1 3 | 4 52 | 25 9 | 15 24 |
| 29 | Tu | 16 | 29 | 36 | 6 21 | 52 | 21 24 | 15 54 | 4 24 | 27 5 | 15 27 |
| 30 | W | 16 | 33 | 33 | 7 22 | 41 | 21 34 | 0 25 | 3 38 | 27 6 | 15 30 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|----------|--------|---------|----------|---------|-------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 08 9 | 17 53 33 | 0 N 38 | 15 5 4 | 1 N 30 | 7 5 40 | 19 ^m 8 |
| 4 | 0 11 | 18 8 | 0 31 | 16 14 | 1 59 | 7 20 | 18 58 |
| 7 | 0 12 | 18 46 | 0 24 | 17 36 | 2 14 | 7 44 | 18 49 |
| 10 | 0 14 | 19 18 | 0 17 | 18 38 | 2 17 | 8 43 | 18 39 |
| 13 | 0 16 | 19 50 | 0 10 | 19 31 | 2 11 | 10 4 | 18 30 |
| 16 | 0 18 | 20 20 | 0 3 | 20 26 | 1 59 | 11 38 | 18 20 |
| 19 | 0 19 | 20 49 | 0 5 4 | 21 16 | 1 43 | 13 17 | 18 10 |
| 22 | 0 21 | 21 15 | 0 10 | 21 56 | 1 24 | 14 57 | 18 1 |
| 25 | 0 23 | 21 42 | 0 19 | 22 40 | 1 4 | 16 35 | 17 51 |
| 28 | 0 25 | 22 5 | 0 27 | 23 17 | 0 43 | 18 17 | 17 42 |

| D
M | h | ♂ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------------------|------------------------|--------------------|-------------------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 29 ^m 13 21 | ♂ 2 18 ^m 48 | 12 ^m 43 | 23 ^m 9 | | | | Δ | | | | |
| 2 | 29 20 21 | 15 19 | 26 18 | 58 23 | D 7 | | | | Δ | | | Δ |
| 3 | 29 26 21 | 28 20 | 9 15 | 13 23 | 18 | | Δ | | □ | | | |
| 4 | 29 32 21 | 40 20 | 51 16 | 23 23 | 36 | | | ■ | ■ | Δ | Δ | ■ |
| 5 | 29 39 21 | 53 21 | 34 17 | 43 24 | 6 | | | | * | | | |
| 6 | 29 46 22 | 6 22 | 16 18 | 58 24 | 41 | | □ | * | | | □ | * |
| 7 | 29 51 22 | 18 22 | 59 20 | 14 25 | 21 | | | | | * | □ | * |
| 8 | 29 57 22 | 31 22 | 42 21 | 29 26 | 10 | | * | | | | | |
| 9 | 0 ^m 3 22 | 43 24 | 25 22 | 44 27 | 8 | | | | | * | * | |
| 10 | 0 9 22 | 56 26 | 7 22 | 59 28 | 13 | | | | ♂ | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 39 | 5 S 32 | 2 N 11 | 1 N 13 | 1 N 9 | 9 S 23 |
| 4 | 16 | 15 | 0 39 | 5 35 | 2 11 | 1 9 | 1 9 | 9 35 |
| 7 | 16 | 16 | 0 39 | 5 38 | 2 12 | 1 5 | 1 9 | 9 46 |
| 10 | 16 | 16 | 0 39 | 5 41 | 2 13 | 1 1 | 1 9 | 9 57 |
| 13 | 16 | 16 | 0 39 | 5 43 | 2 14 | 0 58 | 1 10 | 10 8 |
| 16 | 16 | 16 | 0 39 | 5 45 | 2 15 | 0 55 | 1 10 | 10 18 |
| 19 | 16 | 17 | 0 39 | 5 47 | 2 16 | 0 52 | 1 11 | 10 28 |
| 22 | 16 | 17 | 0 39 | 5 49 | 2 16 | 0 50 | 1 11 | 10 38 |
| 25 | 16 | 17 | 0 39 | 5 50 | 2 17 | 0 48 | 1 12 | 10 47 |
| 28 | 16 | 17 | 0 39 | 5 52 | 2 17 | 0 47 | 1 12 | 10 56 |
| 31 | 16 | 17 | 0 40 | 5 53 | 2 18 | 0 46 | 1 12 | 11 4 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 16 37 29 | 8 ♄ 23 33 | 21 S 44 | 14♄31 | 2 N 41 | 25 N 20 | 15♄32 |
| 2 | F | 16 41 26 | 9 24 26 | 21 53 28 | 9 | 1 35 | 22 7 | 15 34 |
| 3 | S | 16 45 22 | 10 25 19 | 22 2 11 | Ω 19 | 0 27 | 17 50 | 15 36 |
| 4 | S | 16 49 19 | 11 26 15 | 22 11 24 | 3 | 0 S 41 | 12 53 | 15 39 |
| 5 | M | 16 53 16 | 12 27 12 | 22 18 6 | w 26 | 1 45 | 7 32 | 15 42 |
| 6 | Tu | 16 57 13 | 13 28 10 | 22 27 18 | 38 | 2 43 | 2 2 | 15 44 |
| 7 | W | 17 1 10 | 14 29 9 | 22 34 0 | ♄ 30 | 3 33 | 3 S 27 | 15 46 |
| 8 | Th | 17 5 7 | 15 30 10 | 22 41 12 | 21 | 4 13 | 8 46 | 15 49 |
| 9 | F | 17 9 3 | 16 31 12 | 22 47 24 | 11 | 4 42 | 13 45 | 15 52 |
| 10 | S | 17 13 0 | 17 32 15 | 22 53 6 | m 4 | 5 0 | 18 16 | 15 54 |
| 11 | S | 17 16 56 | 18 33 19 | 22 58 18 | 4 | 5 4 | 22 5 | 15 56 |
| 12 | M | 17 20 53 | 19 34 24 | 23 3 0 | ♄ 12 | 4 55 | 25 1 | 15 58 |
| 13 | Tu | 17 24 50 | 20 35 30 | 23 8 12 | 31 | 4 32 | 26 49 | 16 0 |
| 14 | W | 17 28 47 | 21 36 37 | 23 12 25 | 0 | 3 55 | 27 17 | 16 2 |
| 15 | Th | 17 32 44 | 22 37 45 | 23 16 7 | w 41 | 3 7 | 26 21 | 16 4 |
| 16 | F | 17 36 40 | 23 38 52 | 23 19 20 | 32 | 2 8 | 24 0 | 16 6 |
| 17 | S | 17 40 36 | 24 40 1 | 23 21 3 | ♄ 34 | 1 1 | 20 23 | 16 8 |
| 18 | S | 17 44 33 | 25 41 9 | 23 24 16 | 47 | 0 N 9 | 15 40 | 16 10 |
| 19 | M | 17 48 30 | 26 42 18 | 23 25 0 | ♄ 13 | 1 21 | 10 9 | 16 12 |
| 20 | Tu | 17 52 26 | 27 43 27 | 23 27 13 | 52 | 2 29 | 4 4 | 16 14 |
| 21 | W | 17 56 23 | 28 44 36 | 23 28 27 | 44 | 3 30 | 2 N 18 | 16 16 |
| 22 | Th | 18 0 20 | 29 45 45 | 23 28 11 | r 50 | 4 19 | 8 39 | 16 18 |
| 23 | F | 18 4 17 | 0 w 46 | 23 28 26 | 10 | 4 52 | 14 39 | 16 20 |
| 24 | S | 18 8 14 | 1 48 4 | 23 27 10 | ♄ 39 | 5 8 | 19 54 | 16 22 |
| 25 | S | 18 12 10 | 2 49 13 | 23 26 25 | 14 | 5 4 | 24 0 | 16 23 |
| 26 | M | 18 16 7 | 3 50 22 | 23 25 9 | ♄ 49 | 4 40 | 26 34 | 16 24 |
| 27 | Tu | 18 20 4 | 4 51 31 | 23 23 24 | 17 | 3 59 | 27 19 | 16 26 |
| 28 | W | 18 24 0 | 5 52 40 | 23 20 8 | ♄ 31 | 3 3 | 26 14 | 16 27 |
| 29 | Th | 18 27 56 | 6 53 50 | 23 17 22 | 26 | 1 57 | 23 31 | 16 29 |
| 30 | F | 18 31 53 | 7 54 59 | 23 14 5 | Ω 50 | 0 46 | 19 32 | 16 30 |
| 31 | S | 18 35 49 | 8 55 9 | 23 10 19 | 8 | 0 S 26 | 14 42 | 16 31 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 08 26 | 22 S 27 | 08 33 | 23 S 40 | 0 N 22 | 19 S 33 | 17 m 32 |
| 4 | 0 28 | 22 46 | 0 40 | 24 0 | 0 1 | 20 51 | 17 22 |
| 7 | 0 30 | 23 5 | 0 47 | 24 18 | 0 S 20 | 22 0 | 17 13 |
| 10 | 0 31 | 23 21 | 0 53 | 24 20 | 0 39 | 23 0 | 17 3 |
| 13 | 0 33 | 23 35 | 0 59 | 24 20 | 0 57 | 23 50 | 16 54 |
| 16 | 0 35 | 23 46 | 1 4 | 24 9 | 1 14 | 24 28 | 16 44 |
| 19 | 0 37 | 23 55 | 1 10 | 24 0 | 1 29 | 24 55 | 16 35 |
| 22 | 0 38 | 24 2 | 1 15 | 23 39 | 1 43 | 25 10 | 16 25 |
| 25 | 0 40 | 24 7 | 1 20 | 23 14 | 1 53 | 25 11 | 16 16 |
| 28 | 0 42 | 24 9 | 1 24 | 22 37 | 2 2 | 25 0 | 16 6 |
| 31 | 0 43 | 24 10 | 1 26 | 21 44 | 2 7 | 24 34 | 15 57 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|--------|--------|--------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 1 57 | 27 6 | 10 18 | 20 21 | 28 m 44 | | | ☐ | | | | | |
| 2 | 2 12 | 17 11 | 2 21 | 36 0 | 17 | | | | * | ☐ | | | Δ |
| 3 | 2 52 | 28 11 | 46 22 | 51 1 | 51 | | Δ | * | | | | Δ | |
| 4 | 2 9 | 27 39 | 12 30 | 24 6 | 3 25 | | | | | * | | Δ | |
| 5 | 2 13 | 27 50 | 18 14 | 25 21 | 4 58 | | | | | | | | ☐ |
| 6 | 2 17 | 28 1 | 13 58 | 26 36 | 6 32 | ♀ * ♄ | ☐ | | | | | ☐ | |
| 7 | 2 21 | 28 12 | 14 43 | 27 52 | 8 6 | ♂ * ☿ | * | ♂ | ♂ | | | ☐ | * |
| 8 | 2 25 | 28 23 | 15 27 | 29 7 | 9 40 | ☉ * ☿ | * | ♂ | | | | * | * |
| 9 | 2 28 | 28 34 | 16 11 | 0 w 22 | 11 14 | ☉ ♂ ♂ | | | | ♂ | | | |
| 10 | 2 32 | 28 44 | 16 56 | 1 88 | 12 48 | | | | | | | * | |
| 11 | 2 36 | 28 55 | 17 40 | 2 53 | 14 22 | | | | | | | | |
| 12 | 2 39 | 29 5 | 18 24 | 4 8 | 15 56 | ♀ * ☿ | | | * | | | | |
| 13 | 2 43 | 29 16 | 19 9 | 5 24 | 17 30 | | | * | | | | | |
| 14 | 2 46 | 29 26 | 19 53 | 6 39 | 19 4 | | ♂ | | | * | ♂ | ♂ | ♂ |
| 15 | 2 49 | 29 36 | 20 38 | 7 54 | 20 38 | ♀ ♂ ♂ | | ☐ | ☐ | | | ♂ | ♂ |
| 16 | 2 52 | 29 46 | 21 23 | 9 9 | 22 13 | | | | | | | | |
| 17 | 2 55 | 29 56 | 22 7 | 10 24 | 23 48 | | | | Δ | ☐ | | | |
| 18 | 2 58 | 0 m 6 | 22 53 | 11 39 | 25 23 | | | Δ | | | * | | * |
| 19 | 3 1 | 0 16 | 23 37 | 12 55 | 26 58 | ☉ ♂ ♀ | * | | | Δ | | * | * |
| 20 | 3 4 | 0 25 | 24 22 | 14 10 | 28 33 | | | | | | | * | |
| 21 | 3 6 | 0 35 | 25 7 | 15 25 | 0 w 8 | ♀ ☐ ☿ | ☐ | | ♂ | | | ☐ | ☐ |
| 22 | 3 9 | 0 44 | 25 52 | 16 40 | 1 44 | ♀ * ♄ | | ♂ | | | | ☐ | |
| 23 | 3 11 | 0 54 | 26 37 | 17 55 | 3 20 | ☉ * ♄ | Δ | | | ♂ | Δ | | |
| 24 | 3 13 | 1 3 27 | 22 19 | 10 4 | 56 | | | | | | | | Δ |
| 25 | 3 15 | 1 12 | 28 8 | 20 26 | 6 32 | ☉ ☐ ♈ | | | | | | Δ | |
| 26 | 3 17 | 1 21 | 28 53 | 21 41 | 8 9 | | | | Δ | Δ | | | |
| 27 | 3 19 | 1 30 | 29 38 | 22 56 | 9 46 | | | | | | | ♂ | |
| 28 | 3 21 | 1 39 | 0 w 23 | 24 11 | 11 23 | | ♂ | ☐ | ☐ | Δ | | ♂ | ♂ |
| 29 | 3 23 | 1 48 | 1 8 | 25 26 | 13 0 | | | | | | | ♂ | |
| 30 | 3 25 | 1 56 | 1 53 | 26 41 | 14 38 | ♂ * ♄ | | | * | ☐ | | | |
| 31 | 3 26 | 2 5 | 2 38 | 27 56 | 16 16 | ♀ ☐ ☿ | | * | | | | | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1804.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

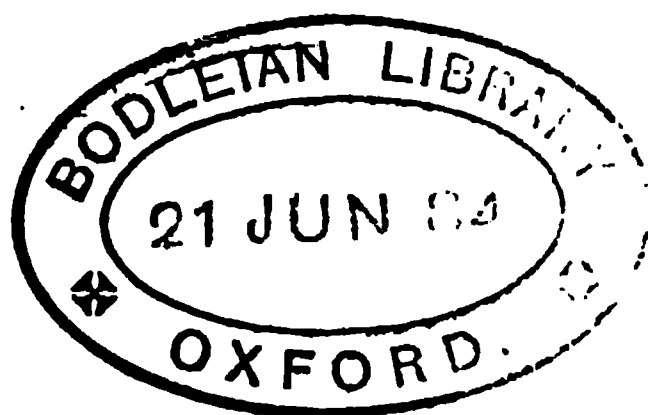
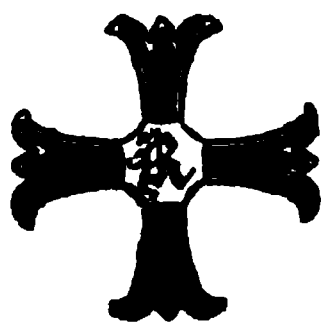
Price One Shilling.

(Alm.) 13.1.15

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1804.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.
Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|----------|-------------------|------------|--------------|------------|-----------|--------------|------------|-------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° | ' | |
| 1 | 16 | 15 | 0 N 40 | 5 54 | 2 N 19 | 0 N 45 | 1 N 18 | 11 8 7 | |
| 2 | 16 | 15 | 0 40 | 5 55 | 2 20 | 0 45 | 1 18 | 11 14 | |
| 7 | 16 | 16 | 0 40 | 5 56 | 2 21 | 0 45 | 1 14 | 11 32 | |
| 10 | 16 | 16 | 0 40 | 5 57 | 2 22 | 0 45 | 1 14 | 11 29 | |
| 13 | 16 | 17 | 0 40 | 5 57 | 2 23 | 0 45 | 1 15 | 11 35 | |
| 16 | 16 | 17 | 0 40 | 5 57 | 2 23 | 0 47 | 1 15 | 11 41 | |
| 19 | 16 | 17 | 0 40 | 5 58 | 2 24 | 0 48 | 1 16 | 11 46 | |
| 22 | 16 | 18 | 0 40 | 5 58 | 2 25 | 0 50 | 1 16 | 11 51 | |
| 25 | 16 | 18 | 0 40 | 5 58 | 2 26 | 0 52 | 1 18 | 11 56 | |
| 28 | 16 | 18 | 0 40 | 5 57 | 2 26 | 0 54 | 1 18 | 12 0 | |
| 31 | 16 | 18 | 0 40 | 5 57 | 2 27 | 0 56 | 1 18 | 12 3 | |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♄
Long. | |
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | S | 18 39 47 | 9 w 57 19 | 23 S 6 | 1 w 55 | 1 S 34 | 9 N 20 | 16 32 | |
| 2 | M | 18 48 49 | 10 58 29 | 23 14 22 | 2 36 | 3 45 | 16 33 | | |
| 3 | Tu | 18 47 39 | 11 59 40 | 22 55 26 | 3 30 | 1 S 50 | 16 34 | | |
| 4 | W | 18 51 36 | 12 0 50 | 22 50 33 | 4 14 | 7 17 | 16 35 | | |
| 5 | Th | 18 55 32 | 14 2 12 | 22 44 20 | 4 46 | 12 24 | 16 36 | | |
| 6 | F | 18 59 29 | 15 3 12 | 22 37 1 | 5 8 | 17 4 | 16 37 | | |
| 7 | S | 19 3 25 | 16 4 24 | 22 30 14 | 5 18 | 21 6 | 16 38 | | |
| 8 | S | 19 7 22 | 17 5 35 | 22 22 26 | 5 6 | 24 18 | 16 39 | | |
| 9 | M | 19 11 18 | 18 6 46 | 22 14 8 | 4 46 | 26 27 | 16 40 | | |
| 10 | Tu | 19 15 15 | 19 7 57 | 22 6 20 | 4 12 | 27 20 | 16 40 | | |
| 11 | W | 19 19 12 | 20 9 8 | 21 57 3 | 3 w 38 | 3 24 | 26 49 | 16 41 | |
| 12 | Th | 19 23 8 | 21 10 18 | 21 48 16 | 3 26 | 24 50 | 16 41 | | |
| 13 | F | 19 27 5 | 22 11 29 | 21 38 29 | 49 1 | 18 21 | 29 16 | 42 | |
| 14 | S | 19 31 1 | 23 12 38 | 21 28 13 | m 16 | 0 4 | 16 56 | 42 | |
| 15 | S | 19 34 58 | 24 13 47 | 21 18 26 | 54 1 N 10 | 11 27 | 16 43 | | |
| 16 | M | 19 38 54 | 25 14 55 | 21 7 10 | x 45 | 2 22 | 5 21 | 16 43 | |
| 17 | Tu | 19 42 51 | 26 16 2 | 20 55 24 | 43 3 | 26 1 N | 3 16 | 44 | |
| 18 | W | 19 46 47 | 27 17 8 | 20 44 8 | r 47 | 4 18 | 7 27 | 16 44 | |
| 19 | Th | 19 50 44 | 28 18 14 | 20 31 22 | 56 4 | 55 18 | 29 16 | 44 | |
| 20 | F | 19 54 41 | 29 19 18 | 20 19 7 | u 7 | 5 14 | 18 50 | 16 44 | |
| 21 | S | 58 37 | 0 m 20 | 20 20 | 8 21 | 19 5 | 14 28 | 9 16 | 44 |
| 22 | S | 3 34 | 1 21 | 22 19 | 58 | 10 4 | 55 26 | 4 16 | 43 |
| 23 | M | 6 30 | 2 22 | 23 19 | 39 19 | 34 4 | 18 27 | 20 16 | 43 |
| 24 | Tu | 10 27 | 3 23 | 23 19 | 25 3 | 31 8 | 26 26 | 51 16 | 43 |
| 25 | W | 14 23 | 4 24 | 21 19 | 11 17 | 18 2 | 23 24 | 42 16 | 43 |
| 26 | Th | 18 20 | 5 25 | 18 18 | 56 0 | 49 1 | 13 21 | 11 16 | 43 |
| 27 | F | 20 22 16 | 6 26 | 15 18 | 41 14 | 4 0 | 8 0 | 16 37 | 42 |
| 28 | S | 20 26 13 | 7 27 | 10 18 | 26 27 | 3 1 | 12 11 | 23 16 | 42 |
| 29 | ■ | 20 30 10 | 8 28 | 5 18 | 10 9 | w 44 | 2 18 | 5 48 | 16 42 |
| 30 | M | 20 34 6 | 9 28 | 58 17 | 54 22 | 9 3 | 16 0 | 7 16 | 42 |
| 31 | Tu | 20 38 3 | 10 29 | 51 17 | 38 4 | 21 4 | 4 5 | 3 28 | 16 41 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | | |
|--------|-------|---------|--------|---------|----------|--------------------|-----------------|---|---|---|---|---|---|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | | | | | | |
| 1 | 08 43 | 24 8 9 | 18 28 | 21 8 47 | 28 8 | MA W W W | 15 m 54 | | | | | | |
| 4 | 0 45 | 24 5 | 1 31 | 21 12 | 3 8 | 23 38 | 15 44 | | | | | | |
| 7 | 0 46 | 24 0 | 1 33 | 20 8 | 3 4 | 22 39 | 15 35 | | | | | | |
| 10 | 0 47 | 23 52 | 1 35 | 19 7 | 1 55 | 21 27 | 15 26 | | | | | | |
| 13 | 0 49 | 23 42 | 1 36 | 18 7 | 1 39 | 20 2 | 15 16 | | | | | | |
| 16 | 0 51 | 23 31 | 1 37 | 16 57 | 1 17 | 18 26 | 15 6 | | | | | | |
| 19 | 0 52 | 23 14 | 1 36 | 15 49 | 0 43 | 16 43 | 14 57 | | | | | | |
| 22 | 0 54 | 22 55 | 1 35 | 14 20 | 0 10 | 15 1 | 14 47 | | | | | | |
| 25 | 0 55 | 22 36 | 1 34 | 13 15 | 0 N 36 | 13 27 | 14 38 | | | | | | |
| 28 | 0 55 | 22 13 | 1 32 | 11 51 | 1 27 | 12 14 | 14 28 | | | | | | |
| 31 | 0 56 | 21 49 | 1 28 | 10 22 | 2 19 | 11 31 | 14 19 | | | | | | |
| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspects. | Lunar Aspects. | | | | | | |
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 3 37 | 2 m 13 | 3 w 24 | 20 w 12 | 17 w 54 | ♂ □ ♀ | | | | * | Δ | | |
| 2 | 3 29 | 3 21 | 4 10 | 0 m 27 | 19 32 | | Δ | | | | | | Δ |
| 3 | 3 29 | 3 29 | 4 56 | 1 42 | 21 10 | | | | | | | | |
| 4 | 3 30 | 3 37 | 5 41 | 2 57 | 22 49 | ♀ Δ ♀ | □ | ♂ | ♂ | | □ | Δ | |
| 5 | 3 31 | 2 45 | 6 27 | 4 12 | 24 28 | | | ♂ | | | | | □ |
| 6 | 3 32 | 3 53 | 7 13 | 5 27 | 26 87 | ☉ □ ♀ | | | | ♂ | ■ | □ | |
| 7 | 3 33 | 3 0 | 7 58 | 6 42 | 27 45 | | * | | | | | | |
| 8 | 3 33 | 3 7 | 8 44 | 7 57 | 29 24 | | | | | | | | * |
| 9 | 3 34 | 3 11 | 9 30 | 9 12 | 1 m 2 | | | | * | | | ■ | |
| 10 | 3 34 | 3 21 | 10 15 | 10 27 | 2 40 | | | * | | | | | |
| 11 | 3 35 | 3 28 | 11 1 | 11 42 | 4 17 | ♀ Δ ♀ | | | □ | * | | | |
| 12 | 3 35 | 3 35 | 11 47 | 12 57 | 5 53 | | ♂ | □ | | | ♂ | | |
| 13 | 3 36 | 3 42 | 12 32 | 14 11 | 7 29 | | | | Δ | □ | | | |
| 14 | 3 35 | 3 49 | 13 18 | 15 26 | 9 3 | | | Δ | | | | ♂ | ♂ |
| 15 | 3 35 | 3 55 | 14 4 | 16 41 | 10 35 | ♀ Δ ♀ | | | | | | | |
| 16 | 3 34 | 4 1 | 14 50 | 17 56 | 12 5 | | | | | Δ | * | | |
| 17 | 3 34 | 4 7 | 15 36 | 19 11 | 13 32 | | * | | | | | | |
| 18 | 3 33 | 4 13 | 16 22 | 20 26 | 14 57 | ♂ □ ♀ | | | | ♂ | | | |
| 19 | 3 33 | 4 19 | 17 9 | 21 40 | 16 19 | ♀ Δ ♀ | □ | ♂ | | | ♂ | □ | * |
| 20 | 3 32 | 4 25 | 17 55 | 22 55 | 17 36 | | | | | | ♂ | | |
| 21 | 3 31 | 4 30 | 18 41 | 24 10 | 18 48 | | | | | | | Δ | □ |
| 22 | 3 30 | 4 35 | 19 27 | 25 24 | 19 54 | | Δ | | | Δ | | | |
| 23 | 3 29 | 4 40 | 20 18 | 26 39 | 20 53 | | | Δ | | | | | Δ |
| 24 | 3 28 | 4 45 | 20 59 | 27 54 | 21 45 | ☉ Δ ♀ | | | | □ | Δ | | |
| 25 | 3 27 | 4 50 | 21 46 | 29 8 | 22 31 | ☉ Δ ♀ | | □ | | | | ♂ | |
| 26 | 3 26 | 4 55 | 22 39 | 0 x 23 | 23 7 | | | ♂ | | * | □ | | |
| 27 | 3 25 | 4 59 | 23 19 | 1 37 | 23 33 | | | * | | | | | |
| 28 | 3 24 | 5 3 | 24 6 | 2 52 | 23 48 | | | | | | | | ♂ |
| 29 | 3 22 | 5 7 | 24 52 | 4 6 | 23 52 | | | | | | ■ | | ♂ |
| 30 | 3 20 | 5 11 | 25 39 | 5 21 | 23 45 | ♀ Δ ♀ | | | | | | Δ | |
| 31 | 3 18 | 5 15 | 26 25 | 6 35 | 23 28 | | | | | ♂ | | | |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 41 | 5 53 56 | 2 N 29 | 0 N 58 | 1 N 19 | 12 8 4 |
| 4 | 16 | 15 | 0 41 | 5 55 | 2 29 | 1 1 | 1 19 | 12 7 |
| 7 | 16 | 14 | 0 41 | 5 54 | 2 30 | 1 6 | 1 20 | 12 9 |
| 10 | 16 | 14 | 0 41 | 5 53 | 2 30 | 1 9 | 1 21 | 12 10 |
| 13 | 16 | 13 | 0 41 | 5 51 | 2 31 | 1 18 | 1 22 | 12 11 |
| 16 | 16 | 12 | 0 41 | 5 49 | 2 31 | 1 17 | 1 23 | 12 11 |
| 19 | 16 | 11 | 0 41 | 5 48 | 2 32 | 1 22 | 1 23 | 12 11 |
| 22 | 16 | 11 | 0 41 | 5 47 | 2 32 | 1 27 | 1 23 | 12 11 |
| 25 | 16 | 10 | 0 41 | 5 45 | 2 33 | 1 32 | 1 24 | 12 10 |
| 28 | 16 | 10 | 0 41 | 5 43 | 2 33 | 1 37 | 1 24 | 12 8 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 20 41 59 | 11 m 30 43 | 17 S 21 | 16 △ 22 | 4 S 41 | 10 S 44 | 16 △ 41 |
| 2 | Th | 20 46 56 | 12 31 34 | 17 4 | 28 17 | 5 5 | 15 37 | 16 R 40 |
| 3 | F | 20 49 52 | 13 32 24 | 16 . 47 | 10 m 9 | 5 17 | 19 53 | 16 40 |
| 4 | S | 20 53 49 | 14 33 13 | 16 29 | 22 4 | 5 14 | 23 22 | 16 39 |
| 5 | S | 20 57 46 | 15 34 1 | 16 11 | 4 f 6 | 4 58 | 25 52 | 16 38 |
| 6 | M | 21 1 42 | 16 34 49 | 15 53 | 16 20 | 4 29 | 27 18 | 16 37 |
| 7 | Tu | 21 5 39 | 17 35 35 | 15 35 | 28 49 | 3 46 | 27 18 | 16 36 |
| 8 | W | 21 9 36 | 18 36 20 | 15 16 | 11 w 37 | 2 51 | 25 48 | 16 35 |
| 9 | Th | 21 13 32 | 19 37 4 | 14 57 | 24 46 | 1 45 | 22 55 | 16 34 |
| 10 | F | 21 17 28 | 20 37 47 | 14 38 | 8 m 16 | 0 32 | 18 44 | 16 33 |

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

| | | | | | | | | | | |
|----|----|----------|---------|--------|--------|------|--------|------|--|--|
| 26 | S | 22 20 33 | 6 45 14 | 9 8 17 | 55 | 2 56 | 2 5 | 16 9 | | |
| 27 | M | 22 24 30 | 7 45 25 | 8 40 | 0 △ 12 | 3 47 | 3 3 33 | 16 8 | | |
| 28 | Tu | 22 28 26 | 8 55 36 | 8 18 | 12 20 | 4 27 | 9 58 | 16 6 | | |
| 29 | W | 22 32 23 | 9 45 44 | 7 55 | 24 19 | 4 55 | 14 1 | 16 5 | | |

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 08 57 | 21 S 41 | 1 S 27 | 10 S 0 | 2 N 35 | 11 S 26 | 14 m 15 |
| 4 | 0 59 | 21 16 | 1 22 | 8 31 | 3 16 | 11 38 | 14 5 |
| 7 | 1 0 | 20 45 | 1 19 | 7 2 | 3 39 | 12 13 | 13 56 |
| 10 | 1 1 | 20 13 | 1 14 | 5 29 | 3 40 | 13 13 | 13 46 |
| 12 | 1 2 | 19 40 | 1 8 | 3 58 | 3 23 | 14 16 | 13 37 |
| 16 | 1 2 | 19 4 | 1 1 | 2 22 | 2 53 | 15 14 | 13 27 |
| 19 | 1 3 | 18 27 | 0 55 | 0 51 | 2 16 | 16 0 | 13 18 |
| 22 | 1 4 | 17 47 | 0 47 | 0 N 47 | 1 37 | 16 31 | 13 8 |
| 25 | 1 5 | 17 8 | 0 40 | 2 18 | 0 59 | 16 48 | 12 59 |
| 28 | 1 5 | 16 23 | 0 33 | 3 54 | 0 23 | 16 50 | 12 49 |

| D
M | h | Long. | M | Long. | ♂ | Long. | ♀ | Long. | ♀ | Long. | Mutual
Aspta. | Lunar Aspects. | | | | | | |
|--------|---|-------|---|-------|----|-------|----|-------|----|-------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | | | | | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ |
| 1 | 3 | 16 | 5 | 19 | 27 | W 11 | 7 | 49 | 22 | m 59 | | Δ | ☉ | | | | | Δ |
| 2 | 3 | 14 | 5 | 22 | 27 | 58 | 9 | 4 | 22 | R 27 | | | | | ☐ | | | |
| 3 | 3 | 12 | 5 | 25 | 28 | 44 | 10 | 18 | 21 | 39 | | ☐ | | ☉ | | Δ | | |
| 4 | 3 | 10 | 5 | 28 | 29 | 32 | 11 | 32 | 20 | 34 | | | | | | | | ☐ |
| 5 | 3 | 8 | 5 | 31 | 0 | m 17 | 12 | 46 | 19 | 27 | | | | * | | * | | |
| 6 | 3 | 5 | 5 | 34 | 1 | 4 | 14 | 0 | 18 | 20 | ☉ Δ ♀ | * | * | | | | ☐ | ■ |
| 7 | 3 | 2 | 5 | 36 | 1 | 50 | 15 | 14 | 17 | 12 | ☉ ☉ ♀ | | | ☐ | | | ☐ | |
| 8 | 3 | 0 | 5 | 38 | 2 | 36 | 16 | 28 | 16 | 2 | ☉ Δ ☿ | ☐ | | * | | * | | |
| 9 | 2 | 57 | 5 | 40 | 3 | 28 | 17 | 42 | 14 | 52 | ☉ Δ ♀ | | | | | | | |
| 10 | 2 | 54 | 5 | 42 | 4 | 10 | 18 | 56 | 13 | 48 | | | | Δ | ☐ | ☉ | | ☉ |
| 11 | 2 | 51 | 5 | 44 | 4 | 5 | | | | | | | | | | | | |
| 12 | 2 | 48 | 5 | 46 | 5 | 4 | | | | | | | | | | | | |
| 13 | 2 | 45 | 5 | 48 | 6 | 3 | | | | | | | | | | ☉ | | |
| 14 | 2 | 42 | 5 | 49 | 7 | 1 | | | | | | | | | | | * | |
| 15 | 2 | 39 | 5 | 50 | 8 | | | | | | | | | | | | | |
| 16 | 2 | 36 | 5 | 51 | 8 | 5 | | | | | | | | | | | ☐ | |
| 17 | 2 | 33 | 5 | 52 | 9 | 34 | | | | | | | | | | | | |
| 18 | 2 | 29 | 5 | 52 | 10 | 24 | | | | | | | | | | * | Δ | |
| 19 | 2 | 25 | 5 | 52 | 11 | 11 | | | | | | | | | | | | |
| 20 | 2 | 22 | 5 | 52 | 11 | 54 | | | | | | | | | | ☐ | | |
| 21 | 2 | 18 | 5 | 52 | 12 | 44 | | | | | | | | | | | | |
| 22 | 2 | 14 | 5 | 52 | 13 | 31 | | | | | | | | | | | | |
| 23 | 2 | 10 | 5 | 52 | 14 | 16 | | | | | | | | | | | Δ | ☉ |
| 24 | 2 | 6 | 5 | 51 | 15 | 6 | | | | | | | | | | | | |
| 25 | 2 | 2 | 5 | 50 | 15 | 54 | | | | | | | | | | | | |
| 26 | 1 | 58 | 5 | 49 | 16 | 40 | 8 | 34 | 10 | 39 | | | | | | | | |
| 27 | 1 | 54 | 5 | 48 | 17 | 27 | 9 | 47 | 11 | 19 | | | ☉ | ☉ | | | | |
| 28 | 1 | 50 | 5 | 47 | 18 | 14 | 11 | 0 | 12 | 8 | | | ☉ | | | | ☉ | Δ |
| 29 | 1 | 46 | 5 | 45 | 19 | 1 | 12 | 13 | 12 | 49 | ☉ * ☉ | | | | | Δ | | |

MARCH XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 41 | 5 S 41 | 2 N 34 | 1 N 41 | 1 N 25 | 12 S 6 |
| 4 | 16 | 9 | 0 41 | 5 38 | 2 34 | 1 47 | 1 25 | 12 3 |
| 7 | 16 | 8 | 0 41 | 5 35 | 2 35 | 1 53 | 1 26 | 12 0 |
| 10 | 16 | 8 | 0 41 | 5 33 | 2 35 | 1 58 | 1 26 | 11 56 |
| 13 | 16 | 7 | 0 42 | 5 31 | 2 36 | 2 4 | 1 27 | 11 52 |
| 16 | 16 | 6 | 0 42 | 5 28 | 2 36 | 2 10 | 1 27 | 11 48 |
| 19 | 16 | 5 | 0 42 | 5 26 | 2 36 | 2 15 | 1 28 | 11 43 |
| 22 | 16 | 4 | 0 42 | 5 24 | 2 36 | 2 21 | 1 28 | 11 37 |
| 25 | 16 | 3 | 0 42 | 5 21 | 2 36 | 2 27 | 1 29 | 11 31 |
| 28 | 16 | 3 | 0 42 | 5 17 | 2 36 | 2 33 | 1 29 | 11 23 |
| 31 | 16 | 2 | 0 42 | 5 15 | 2 36 | 2 38 | 1 29 | 11 17 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 22 36 19 | 10 45 51 | 7 S 32 | 6 m 14 | 6 S 10 | 18 S 29 | 16 Δ 3 |
| 2 | F | 22 40 16 | 11 45 57 | 9 18 | 5 | 5 12 | 22 14 | 16 B 0 |
| 3 | S | 22 44 12 | 12 46 1 | 6 47 | 29 59 | 6 1 25 | 4 | 15 53 |
| 4 | S | 22 48 9 | 13 46 3 | 6 23 | 11 f 59 | 4 46 | 26 49 | 15 56 |
| 5 | M | 22 52 6 | 14 46 4 | 6 0 | 24 10 | 3 58 | 27 18 | 15 54 |
| 6 | Tu | 22 56 2 | 15 46 3 | 5 37 | 6 v 36 | 3 9 | 26 27 | 16 52 |
| 7 | W | 22 59 59 | 16 46 1 | 5 14 | 19 22 | 2 9 | 24 12 | 16 50 |
| 8 | Th | 23 3 55 | 17 45 57 | 4 50 | 2 m 32 | 1 1 | 20 36 | 16 48 |
| 9 | F | 23 7 52 | 18 45 51 | 4 27 | 16 8 | 0 N 13 | 15 49 | 15 46 |
| 10 | S | 23 11 48 | 19 45 43 | 4 0 | 10 | 1 23 | 10 3 | 15 44 |
| 11 | S | 2 | | | 15 | 2 40 | 3 37 | 15 42 |
| 12 | M | 2 | | | 9 | 3 42 | 3 N 8 | 15 40 |
| 13 | Tu | 2 | | | 3 | 4 30 | 9 46 | 15 38 |
| 14 | W | 2 | | | 9 | 5 0 | 15 51 | 15 36 |
| 15 | Th | 2 | | | 19 | 5 9 | 20 58 | 15 34 |
| 16 | F | 23 35 28 | 25 44 15 | 1 42 | 28 35 | 4 59 | 24 43 | 15 32 |
| 17 | S | 23 39 24 | 26 43 53 | 1 13 | 12 51 | 4 29 | 26 49 | 15 30 |
| 18 | S | 23 43 21 | 27 43 28 | 0 54 | 26 49 | 3 44 | 27 10 | 15 27 |
| 19 | M | 23 47 17 | 28 43 0 | 0 31 | 10 25 | 2 48 | 25 51 | 15 25 |
| 20 | Tu | 23 51 14 | 29 42 30 | 0 7 | 23 41 | 1 43 | 23 5 | 15 23 |
| 21 | W | 23 55 10 | 0 41 59 | 0 N 17 | 6 Q 41 | 0 35 | 19 11 | 15 18 |
| 22 | Th | 23 59 7 | 1 41 24 | 0 40 | 19 26 | 0 S 34 | 14 23 | 15 16 |
| 23 | F | 0 3 4 | 2 40 48 | 1 4 | 1 v 59 | 1 40 | 9 14 | 15 15 |
| 24 | S | 0 7 0 | 3 40 9 | 1 25 | 14 23 | 2 40 | 3 42 | 15 13 |
| 25 | S | 0 10 57 | 4 39 28 | 1 51 | 26 36 | 3 31 | 16 52 | 15 12 |
| 26 | M | 0 14 53 | 5 38 44 | 2 15 | 8 Δ 43 | 4 18 | 7 20 | 15 10 |
| 27 | Tu | 0 18 50 | 6 37 59 | 2 38 | 20 44 | 4 49 | 12 33 | 15 7 |
| 28 | W | 0 22 46 | 7 37 11 | 3 2 | 2 m 40 | 5 0 | 17 6 | 15 5 |
| 29 | Th | 0 26 42 | 8 36 22 | 3 25 | 14 33 | 6 4 | 21 4 | 15 3 |
| 30 | F | 0 30 39 | 9 35 31 | 3 48 | 26 24 | 4 55 | 24 9 | 14 59 |
| 31 | S | 0 34 36 | 10 34 39 | 4 12 | 8 f 18 | 4 34 | 26 13 | 14 56 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|--------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 18 6 | 15 8 56 | 0 8 26 | 4 N 54 | 0 N 1 | 16 S 44 | 12 ^m 43 |
| 4 | 1 6 | 15 11 | 0 17 | 6 30 | 0 S 80 | 16 24 | 12 33 |
| 7 | 1 7 | 14 26 | 0 8 | 7 58 | 0 57 | 15 49 | 12 24 |
| 10 | 1 7 | 13 38 | 0 N 2 | 9 28 | 1 21 | 15 3 | 12 14 |
| 13 | 1 8 | 12 50 | 0 12 | 10 56 | 1 40 | 14 4 | 12 5 |
| 16 | 1 8 | 12 0 | 0 22 | 12 19 | 1 56 | 12 53 | 11 55 |
| 19 | 1 8 | 11 9 | 0 32 | 13 44 | 2 8 | 11 30 | 11 46 |
| 22 | 1 9 | 10 19 | 0 43 | 15 2 | 2 17 | 9 56 | 11 36 |
| 25 | 1 9 | 9 26 | 0 53 | 16 21 | 2 21 | 8 10 | 11 27 |
| 28 | 1 9 | 8 34 | 1 3 | 17 32 | 2 21 | 6 14 | 11 17 |
| 31 | 1 9 | 7 43 | 1 15 | 18 43 | 2 16 | 4 8 | 11 8 |

| D
M | h | Long. | M
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|--------------------|-------|-------------------|--------------------|--------------------|--------------------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | | ° | ° | ° | ° | ° | | | | | | | | |
| 1 | 1 | 41 | 5 ^m 43 | 19 ^m 48 | 18 ^m 26 | 13 ^m 39 | | Δ | | | | ♈ | | |
| 2 | 1 | 37 | 5 ^m 41 | 20 35 | 14 39 | 14 32 | | | | | | | □ | □ |
| 3 | 1 | 33 | 5 39 | 21 22 | 15 52 | 15 29 | ♀ ♂ ☿ | | * | | | | | |
| 4 | 1 | 28 | 5 37 | 22 9 | 17 4 | 16 29 | ♀ Δ ☿ | □ | * | | | | | * |
| 5 | 1 | 24 | 5 35 | 22 56 | 18 17 | 17 81 | | | | | | | * | Δ |
| 6 | 1 | 20 | 5 32 | 23 43 | 19 30 | 18 85 | | | | | | | | |
| 7 | 1 | 15 | 5 29 | 24 30 | 20 42 | 19 42 | | * | □ | | | | | □ |
| 8 | 1 | 11 | 5 26 | 25 17 | 21 55 | 20 51 | | | Δ | | | | | |
| 9 | 1 | 6 | 5 22 | 26 4 | 23 7 | 22 2 | | | Δ | | | | | ♈ |
| 10 | 1 | 2 | 5 19 | 26 51 | 24 19 | 23 16 | | | | | | Δ | ♈ | * |
| 11 | 0 | 57 | 5 15 | 27 38 | 25 31 | 24 31 | | ♈ | | | | | | |
| 12 | 0 | 53 | 5 12 | 28 25 | 26 43 | 25 48 | | | | | | | | |
| 13 | 0 | 48 | 5 8 | 29 12 | 27 55 | 27 6 | | | ♈ | | | | | |
| 14 | 0 | 44 | 5 4 | 29 59 | 29 7 | 28 26 | | | | | | ♈ | * | ♈ |
| 15 | 0 | 39 | 4 59 | 0 ^m 46 | 0 ^m 19 | 29 48 | ♀ ♂ ♀ | | | | | | | |
| 16 | 0 | 34 | 4 55 | 1 34 | 1 30 | 1 ^m 11 | ♈ * ♀ | * | | Δ | | | □ | □ |
| 17 | 0 | 30 | 4 50 | 2 21 | 2 42 | 2 36 | ♈ ♂ ♀ | | Δ | | | | | |
| 18 | 0 | 25 | 4 46 | 3 8 | 3 54 | 4 2 | ♀ Δ ♀ | □ | | | | | Δ | |
| 19 | 0 | 20 | 4 41 | 3 55 | 5 5 | 5 30 | ♀ ♂ ♀ | | □ | | | Δ | | * |
| 20 | 0 | 16 | 4 36 | 4 42 | 6 17 | 6 59 | ♈ Δ ♀ | | | | | | | Δ |
| 21 | 0 | 11 | 4 30 | 5 29 | 7 28 | 8 30 | ☉ ♂ ♈ | Δ | | * | | | □ | |
| 22 | 0 | 6 | 4 25 | 6 16 | 8 39 | 10 2 | | | * | | | | | |
| 23 | 0 | 1 | 4 19 | 7 3 | 9 50 | 11 35 | | | | | | * | ♈ | |
| 24 | 29 ^m 56 | 4 | 14 7 | 50 11 | 11 13 | 10 | | | | | | | Δ | ♈ |
| 25 | 29 51 | 4 | 8 8 | 30 12 | 12 14 | 46 | | | | | ♈ | | | |
| 26 | 29 47 | 4 | 2 9 | 23 13 | 23 16 | 24 | | ♈ | | | | | | |
| 27 | 29 42 | 3 | 56 10 | 10 14 | 33 18 | 3 | | | ♈ | | | | | |
| 28 | 29 38 | 3 | 50 10 | 57 15 | 44 19 | 43 | | | | | | ♈ | | |
| 29 | 29 33 | 3 | 44 11 | 44 16 | 54 21 | 25 | | | | | | | Δ | ♈ |
| 30 | 29 29 | 3 | 38 12 | 31 18 | 5 23 | 8 | | | | * | | | | Δ |
| 31 | 29 24 | 3 | 32 13 | 8 19 | 15 24 | 52 | | Δ | | | | | □ | |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 42 | 5 S 12 | 2 N 36 | 2 N 39 | 1 N 30 | 11 S 16 |
| 4 | 16 | 0 | 0 42 | 5 9 | 2 36 | 2 45 | 1 30 | 11 8 |
| 7 | 15 | 59 | 0 42 | 5 6 | 2 36 | 2 50 | 1 30 | 11 1 |
| 10 | 15 | 58 | 0 42 | 5 2 | 2 36 | 2 55 | 1 30 | 10 53 |
| 13 | 15 | 58 | 0 42 | 4 59 | 2 35 | 2 59 | 1 30 | 10 46 |
| 16 | 15 | 57 | 0 42 | 4 57 | 2 35 | 3 4 | 1 30 | 10 38 |
| 19 | 15 | 56 | 0 41 | 4 55 | 2 35 | 3 8 | 1 30 | 10 30 |
| 22 | 15 | 56 | 0 41 | 4 53 | 2 35 | 3 12 | 1 30 | 10 22 |
| 25 | 15 | 55 | 0 41 | 4 50 | 2 34 | 3 16 | 1 30 | 10 15 |
| 28 | 15 | 54 | 0 41 | 4 47 | 2 34 | 3 20 | 1 30 | 10 7 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 0 38 33 | 11 r 33 44 | 4 N 35 | 20 f 17 | 4 S 0 | 27 S 5 | 14 a 49 |
| 2 | M | 0 42 29 | 12 32 48 | 4 58 | 2 v 25 | 3 15 | 26 41 | 14 B 47 |
| 3 | Tu | 0 46 26 | 13 31 50 | 5 21 | 14 47 | 2 20 | 24 57 | 14 44 |
| 4 | W | 0 50 22 | 14 30 51 | 5 44 | 27 28 | 1 16 | 21 56 | 14 42 |
| 5 | Th | 0 54 19 | 15 29 50 | 6 6 | 10 m 32 | 0 7 | 17 44 | 14 39 |
| 6 | F | 0 58 15 | 16 28 47 | 6 29 | 24 4 | 1 N 4 | 12 30 | 14 36 |
| 7 | S | 1 2 12 | 17 27 42 | 6 52 | 8 x 5 | 2 15 | 6 28 | 14 33 |
| 8 | S | 1 6 8 | 18 26 35 | 7 14 | 22 34 | 3 18 | 0 N 5 | 14 31 |
| 9 | M | 1 10 5 | 19 25 27 | 7 37 | 7 r 27 | 4 11 | 6 48 | 14 28 |
| 10 | Tu | 1 14 2 | 20 24 16 | 7 59 | 22 37 | 4 46 | 13 14 | 14 25 |
| 11 | W | 1 17 58 | 21 23 4 | 8 21 | 7 s 53 | 5 2 | 18 54 | 14 23 |
| 12 | Th | 1 21 55 | 22 21 49 | 8 43 | 23 4 | 4 56 | 23 19 | 14 21 |
| 13 | F | 1 25 51 | 23 20 38 | 9 5 | 7 n 59 | 4 30 | 26 6 | 14 19 |
| 14 | S | 1 29 48 | 24 19 14 | 9 26 | 22 32 | 3 47 | 27 2 | 14 16 |
| 15 | S | 1 33 44 | 25 17 53 | 9 48 | 6 s 39 | 2 51 | 26 9 | 14 14 |
| 16 | M | 1 37 41 | 26 16 30 | 10 9 | 20 18 | 1 47 | 23 41 | 14 12 |
| 17 | Tu | 1 41 37 | 27 15 4 | 10 30 | 3 s 33 | 0 39 | 20 1 | 14 9 |
| 18 | W | 1 45 34 | 28 13 36 | 10 51 | 16 26 | 0 S 30 | 15 27 | 14 7 |
| 19 | Th | 1 49 31 | 29 12 6 | 11 12 | 29 1 | 1 35 | 10 21 | 14 4 |
| 20 | F | 1 53 27 | 0 s 10 34 | 11 33 | 11 m 28 | 2 34 | 4 56 | 14 1 |
| 21 | S | 1 57 24 | 1 8 59 | 11 53 | 23 33 | 3 25 | 0 S 35 | 13 58 |
| 22 | S | 2 1 20 | 2 7 22 | 12 13 | 5 a 37 | 4 7 | 6 0 | 13 55 |
| 23 | M | 2 5 17 | 3 5 44 | 12 33 | 17 35 | 4 37 | 11 10 | 13 53 |
| 24 | Tu | 2 9 13 | 4 4 8 | 12 53 | 29 30 | 4 54 | 15 54 | 13 50 |
| 25 | W | 2 13 10 | 5 2 21 | 13 13 | 11 m 23 | 4 59 | 20 0 | 13 47 |
| 26 | Th | 2 17 6 | 6 0 37 | 13 32 | 23 16 | 4 51 | 23 18 | 13 45 |
| 27 | F | 2 21 3 | 6 58 51 | 13 52 | 5 f 9 | 4 30 | 25 37 | 13 42 |
| 28 | S | 2 25 0 | 7 57 4 | 14 11 | 17 6 | 3 58 | 26 47 | 13 40 |
| 29 | S | 2 28 56 | 8 55 15 | 14 29 | 29 7 | 3 14 | 26 42 | 13 38 |
| 30 | M | 2 32 53 | 9 53 25 | 14 48 | 11 v 17 | 2 21 | 25 19 | 13 36 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 10 | 7 S 21 | 1 N 17 | 19 N 7 | 2 S 14 | 3 S 23 | 11 m 5 |
| 4 | 1 10 | 6 26 | 1 25 | 20 10 | 2 3 | 1 4 | 10 55 |
| 7 | 1 9 | 5 31 | 1 37 | 21 11 | 1 49 | 1 N 24 | 10 46 |
| 10 | 1 9 | 4 36 | 1 47 | 22 0 | 1 29 | 4 1 | 10 36 |
| 13 | 1 9 | 3 40 | 1 56 | 22 56 | 1 5 | 6 42 | 10 27 |
| 16 | 1 8 | 2 44 | 2 4 | 23 44 | 0 38 | 9 26 | 10 17 |
| 19 | 1 8 | 1 48 | 2 13 | 24 20 | 0 7 | 12 10 | 10 7 |
| 22 | 1 8 | 0 56 | 2 21 | 24 58 | 0 N 25 | 14 49 | 9 58 |
| 25 | 1 7 | 0 N 3 | 2 28 | 25 22 | 0 57 | 17 16 | 9 48 |
| 28 | 1 7 | 0 54 | 2 34 | 25 47 | 1 27 | 19 25 | 9 39 |

| D
M | h | Long. | ♂
Long. | ♀
Long. | ♂
Long. | ♀
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----|-------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ |
| 1 | 29 | 19 | 3 m 26 | 14 x 4 | 20 8 26 | 26 x 39 | | | | | | | | |
| 2 | 29 | 15 | 3 19 | 14 51 | 21 36 | 28 25 | | | | ☐ | * | * | | ☐ |
| 3 | 29 | 10 | 3 12 | 15 38 | 22 46 | 0 r 13 | ☿ ♂ h | ☐ | ☐ | | | | | |
| 4 | 29 | 1 | 3 5 | 16 25 | 23 55 | 2 3 | ☉ ♂ h | | | Δ | ☐ | | Δ | * |
| 5 | 29 | 1 | 2 58 | 17 12 | 25 5 | 3 55 | | * | Δ | | | | | |
| 6 | 28 | 57 | 2 51 | 17 50 | 26 15 | 5 48 | | | | | | | ☐ | |
| 7 | 28 | 52 | 2 44 | 18 46 | 27 24 | 7 43 | | | | | Δ | | | |
| 8 | 28 | 48 | 2 37 | 19 33 | 28 34 | 9 39 | ♀ Δ h | | | ♂ | | ♂ | * | |
| 9 | 28 | 44 | 2 30 | 20 20 | 29 43 | 11 37 | | | ♂ | | | | | ♂ |
| 10 | 28 | 39 | 2 23 | 21 6 | 0 52 | 13 36 | ☿ ♂ h | ♂ | | | | | | |
| 11 | 28 | 35 | 2 16 | 21 53 | 2 1 | 15 36 | | | | | ♂ | | | |
| 12 | 28 | 31 | 2 8 | 22 40 | 3 10 | 17 37 | | | | Δ | | * | | |
| 13 | 28 | 27 | 2 0 | 23 26 | 4 19 | 19 40 | | | Δ | | | | ♂ | |
| 14 | 28 | 23 | 1 53 | 24 13 | 5 27 | 21 44 | | * | | ☐ | | ☐ | | * |
| 15 | 28 | 19 | 1 45 | 24 59 | 6 36 | 23 49 | | | | | Δ | | | |
| 16 | 28 | 15 | 1 38 | 25 46 | 7 44 | 25 55 | ☉ ♂ ♀ | ☐ | ☐ | | | Δ | * | ☐ |
| 17 | 28 | 11 | 1 30 | 26 32 | 8 52 | 28 2 | | | | * | ☐ | | * | |
| 18 | 28 | 7 | 1 22 | 27 19 | 10 0 | 0 8 9 | ☿ ♂ ♀ | | * | | | | | |
| 19 | 28 | 4 | 1 14 | 28 5 | 11 8 | 2 17 | ♂ ♂ h | Δ | | | * | | | Δ |
| 20 | 28 | 0 | 1 7 | 28 52 | 12 16 | 4 25 | | | | | | | ☐ | |
| 21 | 27 | 57 | 0 59 | 29 38 | 13 23 | 6 33 | ☉ ♂ ♀ | | | ♂ | | | | |
| 22 | 27 | 54 | 0 52 | 0 r 24 | 14 31 | 8 40 | ♀ Δ h | | | | | ♂ | | |
| 23 | 27 | 50 | 0 44 | 1 11 | 15 38 | 10 47 | | | ♂ | | | | Δ | |
| 24 | 27 | 47 | 0 36 | 1 57 | 16 45 | 12 53 | | ♂ | | | ♂ | | | |
| 25 | 27 | 44 | 0 28 | 2 43 | 17 52 | 14 58 | | | | | | | | ♂ |
| 26 | 27 | 40 | 0 21 | 3 29 | 18 58 | 17 1 | | | | * | | | | |
| 27 | 27 | 37 | 0 13 | 4 15 | 20 4 | 19 2 | | | | | | Δ | | |
| 28 | 27 | 34 | 0 6 | 5 1 | 21 10 | 21 1 | | | * | | | | ♂ | |
| 29 | 27 | 31 | 29 Δ 58 | 5 47 | 22 16 | 22 58 | | | | ☐ | * | | | |
| 30 | 27 | 28 | 29 51 | 6 33 | 23 22 | 24 51 | | Δ | ☐ | | | ☐ | | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 18 6 | 1 N 54 | 2 N 40 | 26 N 1 | 1 N 52 | 21 N 16 | 9 29 |
| 4 | 1 5 | 2 50 | 2 45 | 26 10 | 2 11 | 22 48 | 9 20 |
| 7 | 1 4 | 3 44 | 2 49 | 26 17 | 2 24 | 23 48 | 9 10 |
| 10 | 1 3 | 4 38 | 2 52 | 26 14 | 2 28 | 24 32 | 9 1 |
| 13 | 1 2 | 5 32 | 2 54 | 26 10 | 2 25 | 24 56 | 8 51 |
| 16 | 1 1 | 6 26 | 2 54 | 25 59 | 2 18 | 25 3 | 8 42 |
| 19 | 1 0 | 7 18 | 2 54 | 25 41 | 1 52 | 24 54 | 8 32 |
| 22 | 0 59 | 8 9 | 2 52 | 25 19 | 1 22 | 24 32 | 8 23 |
| 25 | 0 58 | 9 0 | 2 49 | 24 52 | 0 45 | 23 58 | 8 13 |
| 28 | 0 57 | 9 50 | 2 44 | 24 21 | 0 1 | 23 16 | 8 4 |
| 31 | 0 56 | 10 42 | 2 36 | 23 48 | 0 25 | 22 23 | 7 54 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | ° | ' | ° | ' | ° | ' |
| 1 | 27 25 | 29 43 | 7 19 | 24 27 | 26 5 | 43 | ♀ Δ h | | | Δ | | | Δ |
| 2 | 27 22 | 29 36 | 8 6 | 25 32 | 28 32 | | | ☐ | | | * | | |
| 3 | 27 20 | 29 28 | 8 52 | 26 37 | 0 16 | | | | Δ | | | | |
| 4 | 27 17 | 29 21 | 9 38 | 27 41 | 1 56 | ♀ ☐ h | | * | | | Δ | | ☐ |
| 5 | 27 15 | 29 13 | 10 24 | 28 46 | 3 33 | | | * | | | | | |
| 6 | 27 13 | 29 6 | 11 10 | 29 51 | 5 7 | ♀ Δ ♀ | | | ♂ | ♂ | | ☐ | * |
| 7 | 27 11 | 28 59 | 11 56 | 0 55 | 6 38 | | | | ♂ | | ♂ | | * |
| 8 | 27 9 | 28 53 | 12 42 | 1 59 | 8 5 | | | | | ♂ | | * | |
| 9 | 27 7 | 28 47 | 13 28 | 3 8 | 9 28 | ♂ ♂ ☿ | ♂ | | | | | | |
| 10 | 27 5 | 28 40 | 14 14 | 4 6 | 10 46 | | | | Δ | | | | |
| 11 | 27 3 | 28 33 | 15 0 | 5 9 | 12 0 | | | | Δ | | | * | ♂ |
| 12 | 27 1 | 28 26 | 15 46 | 6 12 | 13 11 | ♀ Δ ☿ | | | | ☐ | Δ | ♂ | |
| 13 | 26 59 | 28 19 | 16 31 | 7 15 | 14 18 | | | | ☐ | | | | |
| 14 | 26 58 | 28 13 | 17 17 | 8 17 | 15 21 | | | * | | * | ☐ | | |
| 15 | 26 56 | 28 6 | 18 2 | 9 18 | 16 19 | | | | * | | Δ | | * |
| 16 | 26 54 | 28 0 | 18 46 | 10 20 | 17 13 | | | ☐ | | | * | | |
| 17 | 26 53 | 27 54 | 19 33 | 11 21 | 18 8 | | | | | | | * | |
| 18 | 26 52 | 27 48 | 20 18 | 12 22 | 18 49 | ☉ Δ h | | | | | | | ☐ |
| 19 | 26 51 | 27 42 | 21 8 | 13 23 | 19 30 | ♀ ☐ ☿ | | Δ | | ♂ | | | |
| 20 | 26 50 | 27 36 | 21 49 | 14 23 | 20 6 | | | | ♂ | | | ☐ | Δ |
| 21 | 26 49 | 27 31 | 22 34 | 15 22 | 20 38 | | | | | | ♂ | ♂ | |
| 22 | 26 49 | 27 25 | 23 19 | 16 21 | 21 5 | | | | | | | | |
| 23 | 26 48 | 27 20 | 24 4 | 17 20 | 21 27 | | | | | | | Δ | |
| 24 | 26 48 | 27 15 | 24 49 | 18 19 | 21 45 | | | ♂ | | * | | | |
| 25 | 26 47 | 27 10 | 25 34 | 19 18 | 21 58 | | | | * | | | | |
| 26 | 26 46 | | 26 19 | 20 16 | 22 7 | | | | | ☐ | * | Δ | ♂ |
| 27 | 26 46 | | 27 4 | 21 13 | 22 11 | ♂ ♂ ♀ | | | ☐ | | | | |
| 28 | 26 45 | | 27 49 | 22 10 | 22 9 | | | | | Δ | ☐ | ☐ | ♂ |
| 29 | 26 45 | | 28 34 | 23 6 | 22 8 | | | Δ | | | | | |
| 30 | 26 45 | | 29 19 | 24 2 | 21 53 | | | | Δ | | * | | Δ |
| 31 | 26 45 | | 0 5 | 24 57 | 21 40 | | | | | | Δ | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 40 | 4 S 25 | 2 N 27 | 3 N 32 | 1 N 24 | 9 S 0 |
| 4 | 15 | 48 | 0 40 | 4 24 | 2 27 | 3 31 | 1 23 | 8 57 |
| 7 | 15 | 47 | 0 40 | 4 23 | 2 26 | 3 29 | 1 22 | 8 54 |
| 10 | 15 | 47 | 0 40 | 4 23 | 2 25 | 3 27 | 1 22 | 8 52 |
| 13 | 15 | 46 | 0 40 | 4 22 | 2 24 | 3 25 | 1 21 | 8 50 |
| 16 | 15 | 46 | 0 40 | 4 22 | 2 24 | 3 23 | 1 20 | 8 49 |
| 19 | 15 | 46 | 0 40 | 4 22 | 2 23 | 3 20 | 1 19 | 8 49 |
| 22 | 15 | 46 | 0 39 | 4 22 | 2 23 | 3 17 | 1 18 | 8 50 |
| 25 | 15 | 46 | 0 39 | 4 23 | 2 22 | 3 13 | 1 17 | 8 51 |
| 28 | 15 | 45 | 0 39 | 4 23 | 2 21 | 3 9 | 1 17 | 8 52 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / ' | ° / ' | ° / ' | ° / ' | ° / ' | ° / ' |
| 1 | F | 4 39 2 | 10 41 57 | 22 N 4 | 12 19 | 3 N 0 | 4 S 10 | 12 44 |
| 2 | S | 4 42 59 | 11 39 24 | 22 12 | 26 5 | 3 54 | 2 N 1 | 12 43 |
| 3 | S | 4 46 56 | 12 36 50 | 22 20 | 10 15 | 4 36 | 8 17 | 12 42 |
| 4 | M | 4 50 52 | 13 34 15 | 22 27 | 24 49 | 5 0 | 14 16 | 12 41 |
| 5 | Tu | 4 54 49 | 14 31 40 | 22 34 | 9 42 | 5 6 | 19 34 | 12 40 |
| 6 | W | 4 58 45 | 15 29 4 | 22 40 | 24 47 | 4 50 | 23 41 | 12 39 |
| 7 | Th | 5 2 42 | 16 26 27 | 22 46 | 9 54 | 4 15 | 26 9 | 12 39 |
| 8 | F | 5 6 38 | 17 23 50 | 22 52 | 24 55 | 3 22 | 26 44 | 12 38 |
| 9 | S | 5 10 35 | 18 21 12 | 22 57 | 9 38 | 2 16 | 25 22 | 12 38 |
| 10 | S | 5 14 31 | 19 18 34 | 23 2 | 23 59 | 1 3 | 22 22 | 12 38 |
| 11 | M | 5 18 28 | 20 15 54 | 23 6 | 7 52 | 0 8 | 12 18 | 12 37 |
| 12 | Tu | 5 22 25 | 21 13 13 | 23 10 | 21 18 | 1 23 | 13 6 | 12 37 |
| 13 | W | 5 26 21 | 22 10 32 | 23 14 | 4 19 | 2 29 | 7 38 | 12 37 |
| 14 | Th | 5 30 18 | 23 7 49 | 23 17 | 16 57 | 3 25 | 2 1 | 12 37 |
| 15 | F | 5 34 14 | 24 5 6 | 23 20 | 29 17 | 4 10 | 3 32 | 12 36 |
| 16 | S | 5 38 11 | 25 2 22 | 23 22 | 11 24 | 4 43 | 8 51 | 12 36 |
| 17 | S | 5 42 7 | 25 59 37 | 23 24 | 23 22 | 5 3 | 13 46 | 12 36 |
| 18 | M | 5 46 4 | 26 56 51 | 23 26 | 5 15 | 5 10 | 18 9 | 12 36 |
| 19 | Tu | 5 50 1 | 27 54 5 | 23 27 | 17 7 | 5 4 | 21 49 | 12 36 |
| 20 | W | 5 53 57 | 28 51 18 | 23 28 | 29 1 | 4 41 | 24 35 | 12 35 |
| 21 | Th | 5 57 54 | 29 48 30 | 23 28 | 11 0 | 4 12 | 26 17 | 12 35 |
| 22 | F | 6 1 50 | 0 45 42 | 23 28 | 23 6 | 3 29 | 26 46 | 12 35 |
| 23 | S | 6 5 47 | 1 42 53 | 23 27 | 5 19 | 2 36 | 25 57 | 12 35 |
| 24 | S | 6 9 43 | 2 40 5 | 23 26 | 17 42 | 1 33 | 23 50 | 12 35 |
| 25 | M | 6 13 40 | 3 37 16 | 23 25 | 0 15 | 0 26 | 20 33 | 12 36 |
| 26 | Tu | 6 17 36 | 4 34 27 | 23 23 | 13 0 | 0 N 43 | 16 14 | 12 36 |
| 27 | W | 6 21 33 | 5 31 38 | 23 21 | 25 58 | 1 52 | 11 7 | 12 37 |
| 28 | Th | 6 25 30 | 6 28 50 | 23 18 | 9 11 | 2 56 | 5 24 | 12 37 |
| 29 | F | 6 29 26 | 7 26 1 | 23 15 | 22 41 | 3 52 | 0 N 39 | 12 38 |
| 30 | S | 6 33 23 | 8 23 13 | 23 12 | 6 27 | 4 36 | 6 47 | 12 38 |

1. The first part of the document is a list of the names of the persons who have been named in the document.

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 39 | 4 S 24 | 2 N 20 | 3 N 5 | 1 N 16 | 8 S 54 |
| 4 | 15 | 45 | 0 39 | 4 25 | 2 20 | 3 0 | 1 15 | 8 57 |
| 7 | 15 | 45 | 0 39 | 4 26 | 2 19 | 2 55 | 1 14 | 9 1 |
| 10 | 15 | 46 | 0 39 | 4 28 | 2 19 | 2 50 | 1 13 | 9 5 |
| 13 | 15 | 46 | 0 39 | 4 29 | 2 18 | 2 45 | 1 12 | 9 8 |
| 16 | 15 | 46 | 0 39 | 4 30 | 2 18 | 2 39 | 1 12 | 9 13 |
| 19 | 15 | 46 | 0 39 | 4 32 | 2 17 | 2 33 | 1 11 | 9 18 |
| 22 | 15 | 46 | 0 38 | 4 33 | 2 17 | 2 27 | 1 10 | 9 24 |
| 25 | 15 | 47 | 0 38 | 4 35 | 2 16 | 2 21 | 1 10 | 9 30 |
| 28 | 15 | 47 | 0 38 | 4 38 | 2 16 | 2 15 | 1 9 | 9 37 |
| 31 | 15 | 47 | 0 38 | 4 41 | 2 16 | 2 7 | 1 9 | 9 44 |
| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin. | ☿
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 6 37 19 | 9 20 25 | 23 N 8 | 20 31 | 5 N 4 | 12 N 43 | 12 38 |
| 2 | M | 6 41 16 | 10 17 38 | 23 4 | 4 51 | 5 14 | 18 4 | 12 39 |
| 3 | Tu | 6 45 12 | 11 14 50 | 22 59 | 19 25 | 5 4 | 22 28 | 12 40 |
| 4 | W | 6 49 9 | 12 12 3 | 22 54 | 4 7 | 4 35 | 25 29 | 12 41 |
| 5 | Th | 6 53 5 | 13 9 17 | 22 49 | 18 52 | 3 47 | 26 46 | 12 42 |
| 6 | F | 6 57 2 | 14 6 31 | 22 43 | 3 32 | 2 44 | 26 9 | 12 43 |
| 7 | S | 7 0 59 | 15 3 45 | 22 37 | 18 0 | 1 32 | 23 46 | 12 44 |
| 8 | S | 7 4 55 | 16 0 59 | 22 30 | 2 11 | 0 15 | 19 56 | 12 45 |
| 9 | M | 7 8 52 | 16 58 13 | 22 23 | 16 0 | 1 S 1 | 15 5 | 12 46 |
| 10 | Tu | 7 12 48 | 17 55 28 | 22 16 | 29 26 | 2 12 | 9 38 | 12 47 |
| 11 | W | 7 16 45 | 18 52 42 | 22 8 | 12 28 | 3 13 | 3 55 | 12 47 |
| 12 | Th | 7 20 41 | 19 49 56 | 22 0 | 25 9 | 4 3 | 1 S 48 | 12 48 |
| 13 | F | 7 24 38 | 20 47 11 | 21 51 | 7 32 | 4 41 | 7 17 | 12 49 |
| 14 | S | 7 28 34 | 21 44 25 | 21 42 | 19 41 | 5 5 | 12 24 | 12 50 |
| 15 | S | 7 32 31 | 22 41 40 | 21 33 | 1 40 | 5 16 | 17 0 | 12 51 |
| 16 | M | 7 36 28 | 23 38 55 | 21 24 | 18 34 | 5 13 | 20 53 | 12 52 |
| 17 | Tu | 7 40 24 | 24 36 9 | 21 14 | 25 27 | 4 56 | 23 56 | 12 53 |
| 18 | W | 7 44 21 | 25 33 24 | 21 3 | 7 23 | 4 27 | 25 57 | 12 55 |
| 19 | Th | 7 48 17 | 26 30 39 | 20 52 | 19 27 | 3 46 | 26 48 | 12 56 |
| 20 | F | 7 52 14 | 27 27 55 | 20 41 | 1 40 | 2 54 | 26 21 | 12 58 |
| 21 | S | 7 56 10 | 28 25 11 | 20 30 | 14 4 | 1 53 | 24 35 | 13 0 |
| 22 | S | 8 0 7 | 29 22 27 | 20 18 | 26 43 | 0 45 | 21 34 | 13 2 |
| 23 | M | 8 4 3 | 0 19 44 | 20 6 | 9 35 | 0 N 26 | 17 27 | 13 4 |
| 24 | Tu | 8 8 0 | 1 17 2 | 19 54 | 22 41 | 1 37 | 12 26 | 13 5 |
| 25 | W | 8 11 57 | 2 14 20 | 19 41 | 6 2 | 2 44 | 6 46 | 13 7 |
| 26 | Th | 8 15 53 | 3 11 40 | 19 28 | 19 35 | 3 43 | 0 42 | 13 9 |
| 27 | F | 8 19 50 | 4 9 1 | 19 14 | 3 21 | 4 30 | 5 N 28 | 13 11 |
| 28 | S | 8 23 46 | 5 6 23 | 19 1 | 17 18 | 5 2 | 11 27 | 13 13 |
| 29 | S | 8 27 43 | 6 3 45 | 18 47 | 1 24 | 5 16 | 16 55 | 13 15 |
| 30 | M | 8 31 39 | 7 1 10 | 18 32 | 15 37 | 5 12 | 21 30 | 13 17 |
| 31 | Tu | 8 35 36 | 7 58 35 | 18 18 | 29 55 | 4 47 | 24 50 | 13 19 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|-----------|--------|-----------|----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0° 37' | 17° N 51' | 0° 19' | 15° N 26' | 3° 16' | 19° N 41' | 6m 16' |
| 4 | 0 85 | 18 23 | 0 52 | 14 45 | 2 42 | 20 28 | 6 6 |
| 7 | 0 33 | 18 57 | 1 24 | 18 48 | 2 4 | 21 17 | 5 58 |
| 10 | 0 31 | 19 27 | 2 2 | 18 4 | 1 25 | 22 3 | 5 47 |
| 13 | 0 29 | 19 56 | 2 38 | 12 24 | 0 45 | 22 40 | 5 37 |
| 16 | 0 26 | 20 30 | 3 20 | 11 54 | 0 7 | 23 4 | 5 28 |
| 19 | 0 24 | 20 48 | 4 0 | 11 17 | 0 N 27 | 23 8 | 5 18 |
| 22 | 0 22 | 21 12 | 4 40 | 10 51 | 0 57 | 22 50 | 5 9 |
| 25 | 0 20 | 21 34 | 5 22 | 10 36 | 1 20 | 22 8 | 4 59 |
| 28 | 0 18 | 21 54 | 5 52 | 10 27 | 1 35 | 21 2 | 4 50 |
| 31 | 0 16 | 22 10 | 6 24 | 10 20 | 1 44 | 19 37 | 4 40 |

| D
M | h ₂ | | M | | J | | V | | Mutual | | Lunar Aspects. | | | | | |
|--------|----------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | Aspts. | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 27 39 | 26 26 | 4 22 | 8 39 | 17 12 | 5 18 | 11 8 | | | | | | ♂ | Δ | ■ | |
| 2 | 27 42 | 26 8 | 23 22 | 17 29 | 18 58 | | | | * | | | | | | | |
| 3 | 27 46 | 26 8 | 24 5 | 17 51 | 19 55 | | | | | | | | ♂ | □ | | |
| 4 | 27 49 | 26 10 | 24 47 | 18 11 | 21 0 | | | | | | | Δ | | | | |
| 5 | 27 53 | 26 12 | 25 40 | 18 30 | 22 8 | ☉ | ☿ | ♂ | | | Δ | | | | ☿ | |
| 6 | 27 56 | 26 14 | 26 18 | 18 47 | 23 18 | | | | | | ♂ | □ | □ | Δ | | |
| 7 | 28 0 | 26 16 | 26 55 | 19 2 | 24 31 | | | | | | | | * | □ | * | |
| 8 | 28 4 | 26 19 | 27 37 | 19 15 | 25 49 | ♀ | Δ | ♂ | | | | | * | □ | * | |
| 9 | 28 8 | 26 22 | 28 19 | 19 26 | 27 12 | ♂ | Δ | ♂ | | | | * | | | ♂ | |
| 10 | 28 12 | 26 25 | 29 1 | 19 35 | 28 39 | ♀ | □ | ♂ | | | | | * | □ | | * |
| 11 | 28 16 | 26 28 | 29 43 | 19 41 | 0 10 | | | | | | | | | | | |
| 12 | 28 20 | 26 31 | 0 25 | 19 45 | 1 45 | | | | * | | | ♂ | | Δ | | |
| 13 | 28 24 | 26 35 | 1 7 | 19 47 | 3 24 | | | | | | | ♂ | | | | □ |
| 14 | 28 28 | 26 39 | 1 49 | 19 48 | 5 6 | | | | | | □ | | | | * | Δ |
| 15 | 28 33 | 26 43 | 2 31 | 19 46 | 6 51 | | | | | | | | ♂ | | | |
| 16 | 28 37 | 26 47 | 3 12 | 19 41 | 8 40 | | | | | | | | | | □ | |
| 17 | 28 42 | 26 51 | 3 54 | 19 34 | 10 32 | | | | | | Δ | * | * | | | |
| 18 | 28 46 | 26 55 | 4 36 | 19 24 | 12 27 | ♀ | □ | ♂ | | | | * | | ♂ | | |
| 19 | 28 51 | 26 59 | 5 17 | 19 12 | 14 24 | | | | | | | | | | Δ | |
| 20 | 28 55 | 27 4 | 5 59 | 18 57 | 16 23 | ☉ | ☿ | ♂ | | | | □ | * | | | |
| 21 | 29 0 | 27 9 | 6 40 | 18 40 | 18 24 | | | | | | | □ | | | | ♂ |
| 22 | 29 5 | 27 14 | 7 21 | 18 31 | 20 28 | ☉ | * | ♂ | | | ♂ | | Δ | □ | | |
| 23 | 29 10 | 27 19 | 8 2 | 18 0 | 22 33 | | | | | | | Δ | | | Δ | ♂ |
| 24 | 29 15 | 27 24 | 8 48 | 17 37 | 24 38 | | | | | | | | | Δ | | |
| 25 | 29 20 | 27 29 | 9 24 | 17 11 | 26 44 | ♀ | □ | ♂ | | | | | | □ | | |
| 26 | 29 25 | | | 16 42 | 28 50 | | | | | | | | | | | |
| 27 | 29 30 | | | 16 12 | 0 56 | | | | | | Δ | | ♂ | | | Δ |
| 28 | 29 35 | | | 15 41 | 3 8 | | | | | | | ♂ | | | * | Δ |
| 29 | 29 40 | | | 15 8 | 5 9 | | | | | | □ | | | ♂ | | □ |
| 30 | 29 45 | | | 14 34 | 7 14 | | | | | | | | | | □ | |
| 31 | 29 51 | | | 14 0 | 9 18 | | | | | | | Δ | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 38 | 4 S 42 | 2 N 15 | 2 N 5 | 1 N 8 | 9 S 47 |
| 4 | 15 | 47 | 0 38 | 4 45 | 2 15 | 1 58 | 1 7 | 9 55 |
| 7 | 15 | 48 | 0 38 | 4 48 | 2 14 | 1 51 | 1 6 | 10 3 |
| 10 | 15 | 48 | 0 38 | 4 51 | 2 14 | 1 44 | 1 6 | 10 12 |
| 13 | 15 | 49 | 0 38 | 4 53 | 2 13 | 1 36 | 1 5 | 10 21 |
| 16 | 15 | 49 | 0 38 | 4 56 | 2 13 | 1 28 | 1 5 | 10 30 |
| 19 | 15 | 50 | 0 38 | 4 58 | 2 13 | 1 40 | 1 4 | 10 39 |
| 22 | 15 | 50 | 0 38 | 5 1 | 2 13 | 1 18 | 1 3 | 10 49 |
| 25 | 15 | 51 | 0 38 | 5 4 | 2 12 | 1 3 | 1 3 | 10 59 |
| 28 | 15 | 51 | 0 38 | 5 8 | 2 12 | 0 55 | 1 2 | 11 9 |
| 31 | 15 | 52 | 0 38 | 5 13 | 2 12 | 0 47 | 1 2 | 11 20 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 8 39 33 | 8 2 56 | 2 18 N 3 | 14 15 | 4 N 5 | 26 N 36 | 13 21 |
| 2 | Th | 8 43 29 | 9 53 30 | 17 47 23 | 33 | 8 36 | 36 | 13 23 |
| 3 | F | 8 47 26 | 10 50 59 | 17 32 12 | 46 | 2 0 | 24 50 | 13 25 |
| 4 | S | 8 51 22 | 11 48 29 | 17 16 36 | 49 | 0 45 | 21 33 | 13 27 |
| 5 | S | 8 55 19 | 12 46 1 | 17 0 10 | 39 | 0 32 | 17 4 | 13 29 |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 36 | 5 55 57 | 2 N 11 | 0 54 43 | 0 N 57 | 13 S 20 |
| 4 | 16 | 1 | 0 36 | 6 2 | 2 11 | 0 51 | 0 57 | 13 32 |
| 7 | 16 | 2 | 0 36 | 6 7 | 2 12 | 1 | 0 56 | 13 45 |
| 10 | 16 | 3 | 0 36 | 6 12 | 2 12 | 1 9 | 0 56 | 13 57 |
| 13 | 16 | 4 | 0 36 | 6 16 | 2 12 | 1 17 | 0 56 | 14 9 |
| 16 | 16 | 5 | 0 36 | 6 20 | 2 12 | 1 26 | 0 56 | 14 21 |
| 19 | 16 | 5 | 0 36 | 6 24 | 2 12 | 1 34 | 0 55 | 14 33 |
| 22 | 16 | 6 | 0 36 | 6 27 | 2 12 | 1 42 | 0 55 | 14 45 |
| 25 | 16 | 7 | 0 36 | 6 31 | 2 13 | 1 50 | 0 55 | 14 58 |
| 28 | 16 | 7 | 0 36 | 6 35 | 2 13 | 1 | 0 54 | 15 10 |
| 31 | 16 | 8 | 0 36 | 6 38 | 2 13 | 2 6 | 0 54 | 15 21 |
| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♄
Long.
° ' " | ♄
Lat.
° ' " | ♄
Declin.
° ' " | ♃
Long.
° ' " |
| 1 | M | 12 40 2 | 8 4 31 | 3 5 12 | 12 42 2 | 3 5 12 | 4 N 6 | 16 33 |
| 2 | Tu | 12 43 59 | 9 3 40 | 3 36 24 | 43 | 3 59 | 1 3 33 | 16 36 |
| 3 | W | 12 47 56 | 10 2 50 | 3 59 7 | 13 | 4 33 | 7 8 | 16 40 |
| 4 | Th | 12 51 52 | 11 2 3 | 22 19 | 33 | 4 54 | 12 11 | 16 44 |
| 5 | F | 12 55 49 | 12 1 18 | 4 45 | 1 43 | 5 16 | 16 47 | 16 47 |
| 6 | S | 12 59 45 | 13 0 35 | 5 9 | 13 45 | 4 55 | 20 40 | 16 51 |
| 7 | S | 13 3 42 | 13 59 54 | 5 32 | 25 40 | 4 36 | 23 40 | 16 55 |
| 8 | M | 13 7 38 | 14 59 14 | 5 55 | 7 30 | 4 5 | 25 37 | 16 59 |
| 9 | Tu | 13 11 35 | 15 58 36 | 6 18 | 19 18 | 3 24 | 26 25 | 17 3 |
| 10 | W | 13 15 31 | 16 58 1 | 6 40 | 1 10 | 2 33 | 26 1 | 17 7 |
| 11 | Th | 13 19 28 | 17 57 27 | 7 3 | 13 10 | 1 35 | 24 24 | 17 12 |
| 12 | F | 13 23 24 | 18 56 54 | 7 26 | 25 24 | 0 32 | 21 37 | 17 16 |
| 13 | S | 13 27 21 | 19 56 23 | 7 48 | 7 55 | 0 N 34 | 17 45 | 17 20 |
| 14 | S | 13 31 18 | 20 55 54 | 8 11 | 20 51 | 1 40 | 12 58 | 17 24 |
| 15 | M | 13 35 14 | 21 55 27 | 8 33 | 4 13 | 2 44 | 7 25 | 17 28 |
| 16 | Tu | 1 22 55 | 2 8 55 | 18 5 | 3 40 | 1 20 | 17 32 | 17 32 |
| 17 | W | 1 23 54 | 3 8 38 | 9 17 | 2 25 | 4 24 | 5 N 0 | 17 36 |
| 18 | Th | 1 24 54 | 4 17 9 | 39 17 | 10 | 4 52 | 11 14 | 17 40 |
| 19 | F | 1 25 53 | 5 7 10 | 1 25 | 11 | 5 0 | 16 56 | 17 43 |
| 20 | S | 1 26 53 | 6 7 10 | 23 17 | 19 | 4 48 | 21 37 | 17 47 |
| 21 | S | 13 58 53 | 27 58 24 | 10 44 | 2 123 | 4 15 | 24 50 | 17 50 |
| 22 | M | 14 2 50 | 28 58 11 | 11 5 | 17 14 | 3 26 | 26 16 | 17 53 |
| 23 | Tu | 14 6 47 | 29 58 0 | 11 27 | 1 46 | 2 24 | 26 51 | 17 56 |
| 24 | W | 14 10 43 | 0 52 51 | 11 48 | 16 56 | 1 15 | 23 45 | 18 0 |
| 25 | Th | 14 14 40 | 1 52 45 | 12 8 | 29 42 | 0 3 | 20 17 | 18 4 |
| 26 | F | 1 16 2 | 2 52 40 | 12 29 | 13 6 | 1 3 | 15 49 | 18 8 |
| 27 | S | 1 18 3 | 3 52 39 | 12 49 | 26 11 | 2 13 | 10 43 | 18 14 |
| 28 | S | 1 19 4 | 4 52 39 | 13 10 | 9 0 | 3 10 | 5 16 | 18 17 |
| 29 | M | 1 20 5 | 5 52 42 | 13 30 | 21 36 | 3 56 | 0 17 | 18 20 |
| 30 | Tu | 1 22 6 | 6 52 47 | 13 50 | 4 0 | 4 30 | 5 44 | 18 23 |
| 31 | W | 1 23 7 | 7 52 54 | 14 9 | 16 16 | 4 52 | 10 53 | 18 27 |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 36 | 6 S 42 | 2 N 14 | 2 S 9 | 0 N 54 | 15 S 25 |
| 4 | 16 | 10 | 0 36 | 6 46 | 2 14 | 2 16 | 0 54 | 15 37 |
| 7 | 16 | 11 | 0 36 | 6 50 | 2 15 | 2 24 | 0 53 | 15 49 |
| 10 | 16 | 12 | 0 36 | 6 55 | 2 15 | 2 31 | 0 53 | 16 1 |
| 13 | 16 | 12 | 0 36 | 6 58 | 2 15 | 2 38 | 0 53 | 16 12 |
| 16 | 16 | 13 | 0 37 | 7 2 | 2 15 | 2 46 | 0 53 | 16 23 |
| 19 | 16 | 14 | 0 37 | 7 5 | 2 16 | 2 51 | 0 53 | 16 34 |
| 22 | 16 | 14 | 0 37 | 7 8 | 2 17 | 2 57 | 0 53 | 16 45 |
| 25 | 16 | 15 | 0 37 | 7 12 | 2 18 | 3 4 | 0 53 | 16 55 |
| 28 | 16 | 15 | 0 37 | 7 15 | 2 18 | 3 10 | 0 53 | 17 5 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 14 42 16 | 8 m 53 3 | 14 S 29 | 28 n 24 | 5 S 0 | 15 S 35 | 18 n 30 |
| 2 | F | 14 46 12 | 9 53 15 | 14 48 | 10 m 25 | 4 54 19 | 37 | 18 33 |
| 3 | S | 14 50 9 | 10 53 28 | 15 7 22 | 21 4 | 36 22 | 49 | 18 37 |
| 4 | S | 14 54 5 | 11 53 42 | 15 25 4 | † 18 | 4 5 25 | 1 | 18 41 |
| 5 | M | 14 58 2 | 12 53 59 | 15 44 16 | 2 | 3 24 26 | 7 | 18 44 |
| 6 | Tu | 15 1 58 | 13 54 17 | 16 2 27 | 50 | 2 34 26 | 1 | 18 47 |
| 7 | W | 15 5 55 | 14 54 37 | 16 20 9 | w 42 | 1 37 24 | 44 | 18 51 |
| 8 | Th | 15 9 51 | 15 54 58 | 16 37 21 | 41 | 0 35 22 | 18 | 18 55 |
| 9 | F | 15 13 48 | 16 55 20 | 16 55 3 | m 52 | 0 N 29 | 18 50 | 18 58 |
| 10 | S | 15 17 45 | 17 55 44 | 17 12 16 | 19 | 1 34 14 | 28 | 19 2 |
| 11 | S | 15 21 41 | 18 56 9 | 17 28 29 | 9 | 2 36 9 | 21 | 19 6 |
| 12 | M | 15 25 38 | 19 56 36 | 17 45 12 | x 25 | 3 32 3 | 39 | 19 9 |
| 13 | Tu | 15 29 34 | 20 57 3 | 18 1 26 | 10 | 4 18 2 | N 25 | 19 13 |
| 14 | W | 15 33 31 | 21 57 33 | 18 17 10 | r 26 | 4 49 8 | 34 | 19 17 |
| 15 | Th | 15 37 27 | 22 58 3 | 18 32 25 | 9 | 5 3 14 | 27 | 19 20 |
| 16 | F | 15 41 24 | 23 58 35 | 18 47 10 | s 16 | 4 56 19 | 30 | 19 24 |
| 17 | S | 15 45 20 | 24 59 9 | 19 2 25 | 34 | 4 29 23 | 36 | 19 28 |
| 18 | S | 15 49 17 | 25 59 44 | 19 16 10 | n 54 | 3 41 25 | 45 | 19 31 |
| 19 | M | 15 53 14 | 27 0 21 | 19 31 26 | 3 | 2 39 26 | 3 | 19 34 |
| 20 | Tu | 15 57 10 | 28 0 59 | 19 44 10 | s 53 | 1 27 24 | 28 | 19 37 |
| 21 | W | 16 1 7 | 29 1 39 | 19 58 25 | 18 | 0 11 21 | 17 | 19 39 |
| 22 | Th | 16 5 3 | 0 † 2 20 | 20 11 9 | Ω 15 | 1 S 4 16 | 56 | 19 42 |
| 23 | F | 16 9 0 | 1 3 4 | 20 23 22 | 46 | 2 12 11 | 51 | 19 44 |
| 24 | S | 16 12 56 | 2 3 49 | 20 36 5 | m 53 | 3 12 6 | 24 | 19 47 |
| 25 | S | 16 16 53 | 3 4 35 | 20 48 18 | 39 | 4 0 0 | 49 | 19 50 |
| 26 | M | 16 20 49 | 4 5 24 | 20 59 1 | n 7 | 4 35 48 | 39 | 19 53 |
| 27 | Tu | 16 24 46 | 5 6 14 | 21 10 13 | 23 | 4 58 9 | 51 | 19 56 |
| 28 | W | 16 28 43 | 6 7 5 | 21 21 25 | 29 | 5 6 14 | 36 | 19 59 |
| 29 | Th | 16 32 39 | 7 7 58 | 21 31 7 | m 28 | 5 1 18 | 45 | 20 3 |
| 30 | F | 16 36 36 | 8 8 53 | 21 41 19 | 22 | 4 43 22 | 7 | 20 6 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 34 | 20 N 8 | 0 N 58 | 8 N 30 | 1 N 58 | 7 S 28 | 29 W 45 |
| 4 | 1 39 | 19 48 | 1 12 | 8 18 | 1 48 | 9 23 | 29 85 |
| 7 | 1 44 | 19 34 | 1 21 | 1 13 | 1 26 | 11 19 | 29 26 |
| 10 | 1 49 | 19 20 | 1 31 | 0 8 3 | 1 7 | 13 18 | 29 16 |
| 13 | 1 55 | 19 7 | 1 40 | 1 12 | 0 48 | 15 2 | 29 7 |
| 16 | 2 1 | 18 55 | 1 47 | 2 27 | 0 27 | 16 45 | 28 67 |
| 19 | 2 7 | 18 48 | 1 54 | 3 41 | 0 7 | 18 31 | 28 49 |
| 22 | 2 13 | 18 34 | 1 59 | 5 0 | 0 8 14 | 19 50 | 28 33 |
| 25 | 2 19 | 18 24 | 2 4 | 6 12 | 0 33 | 21 10 | 28 29 |
| 28 | 2 25 | 18 14 | 2 7 | 7 29 | 0 52 | 22 30 | 28 19 |

| D
M | ☿ | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 10 35 | 14 45 | 7 2 | 8 23 | 23 25 | 23 52 | | | | | | | ♌ |
| 2 | 10 42 | 14 58 | 7 28 | 8 24 | 81 25 | 25 | ♌ | | | ♌ | ■ | * | |
| 3 | 10 49 | 15 11 | 7 53 | 8 25 | 37 27 | 0 | | | | | | Δ | * |
| 4 | 10 56 | 15 24 | 8 17 | 8 26 | 44 28 | 36 | | | | | | Δ | |
| 5 | 11 2 15 | 37 8 | 42 27 | 51 0 | 12 | | | * | * | | | | |
| 6 | 11 9 15 | 50 9 | 7 28 | 56 1 | 48 | | | | | | | □ | * |
| 7 | 11 16 16 | 4 9 | 31 0 | 5 8 | 24 | | * | | □ | | | | * |
| 8 | 11 22 16 | 17 9 | 54 1 | 12 5 | 1 | | | ■ | | * | | | |
| 9 | 11 28 16 | 30 10 | 17 2 | 20 6 | 38 | ☉ ☿ ♈ | | | | | | Δ | □ |
| 10 | 11 35 16 | 43 10 | 39 8 | 28 8 | 15 | | □ | Δ | Δ | □ | ♌ | | |
| 11 | 11 41 16 | 56 11 | 2 4 | 36 9 | 52 | | | | | | | | |
| 12 | 11 48 17 | 9 11 | 25 5 | 44 11 | 29 | ☿ ☐ ♌ | | | | | Δ | | Δ |
| 13 | 11 54 17 | 23 11 | 47 6 | 52 13 | 5 | | Δ | | | | | | |
| 14 | 12 1 17 | 36 12 | 8 8 | 1 14 | 42 | ♌ * ♈ | | | ♌ | | Δ | ♌ | |
| 15 | 12 7 17 | 49 12 | 29 9 | 10 16 | 18 | | | ♌ | | | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 37 | 7 S 19 | 2 N 19 | 3 S 51 | 0 N 53 | 17 S 16 |
| 4 | 16 | 15 | 0 37 | 7 22 | 2 19 | 3 21 | 0 53 | 17 26 |
| 7 | 16 | 16 | 0 37 | 7 25 | 2 20 | 3 26 | 0 52 | 17 36 |
| 10 | 16 | 16 | 0 37 | 7 29 | 2 20 | 3 31 | 0 52 | 17 46 |
| 13 | 16 | 16 | 0 37 | 7 32 | 2 21 | 3 35 | 0 52 | 17 55 |
| 16 | 16 | 16 | 0 37 | 7 34 | 2 22 | 3 39 | 0 52 | 18 4 |
| 19 | 16 | 17 | 0 37 | 7 36 | 2 23 | 3 43 | 0 53 | 18 13 |
| 22 | 16 | 17 | 0 37 | 7 57 | 2 23 | 3 46 | 0 53 | 18 21 |
| 25 | 16 | 17 | 0 37 | 7 39 | 2 24 | 3 49 | 0 53 | 18 30 |
| 28 | 16 | 17 | 0 38 | 7 41 | 2 24 | 3 52 | 0 53 | 18 38 |
| 31 | 16 | 17 | 0 28 | 7 42 | 2 24 | 3 54 | 0 53 | 18 45 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ☾
Long. | | | ☾
Lat. | | | ☾
Declin | | | ♂
Long. | | |
|--------|--------|-------------------|----|----|------------|---|-------|-------------|---|----|------------|------|----|-----------|----|----|-------------|----|----|------------|---|----|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | S | 16 | 40 | 32 | 9 | ♄ | 9 48 | 21 | S | 51 | 1 | ♄ | 14 | 4 | S | 13 | 24 | S | 33 | 20 | ♄ | 9 |
| 2 | S | 16 | 44 | 29 | 10 | | 10 45 | 22 | | 0 | 18 | 4 | | 3 | 31 | 25 | 53 | | | 20 | | 13 |
| 3 | M | 16 | 48 | 25 | 11 | | 11 43 | 22 | | 9 | 24 | 55 | | 2 | 41 | 26 | | 3 | | 20 | | 16 |
| 4 | Tu | 16 | 52 | 22 | 12 | | 12 42 | 22 | | 17 | 6 | w 48 | | 1 | 43 | 25 | | 0 | | 20 | | 19 |
| 5 | W | 16 | 56 | 18 | 13 | | 13 41 | 22 | | 25 | 18 | 45 | | 0 | 40 | 22 | | 49 | | 20 | | 22 |
| 6 | Th | 17 | 0 | 15 | 14 | | 14 42 | 22 | | 32 | 0 | m 50 | | 0 | N | 25 | 19 | 35 | | 20 | | 25 |
| 7 | F | 17 | 4 | 12 | 15 | | 15 43 | 22 | | 39 | 13 | 4 | | 1 | 31 | 15 | 28 | | | 20 | | 27 |
| 8 | S | 17 | 8 | 8 | 16 | | 16 44 | 22 | | 45 | 25 | 34 | | 2 | 33 | 10 | 37 | | | 20 | | 29 |
| 9 | S | 17 | 12 | 5 | 17 | | 17 47 | 22 | | 51 | 8 | x 21 | | 3 | 29 | 5 | 13 | | | 20 | | 31 |
| 10 | M | 17 | 16 | 1 | 18 | | 18 49 | 22 | | 57 | 21 | 31 | | 4 | 17 | 0 | N 34 | | | 20 | | 33 |
| 11 | Tu | 17 | 19 | 58 | 19 | | 19 53 | 23 | | 2 | 5 | r 7 | | 4 | 51 | 6 | 29 | | | 20 | | 35 |
| 12 | W | 17 | 23 | 54 | 20 | | 20 56 | 23 | | 7 | 19 | 9 | | 5 | | 9 | 12 | 16 | | 20 | | 38 |
| 13 | Th | 17 | 27 | 51 | 21 | | 22 0 | 23 | | 11 | 3 | ♄ 39 | | 5 | | 9 | 17 | 35 | | 20 | | 40 |
| 14 | F | 17 | 31 | 47 | 22 | | 23 5 | 23 | | 15 | 18 | 31 | | 4 | 48 | 21 | 58 | | | 20 | | 43 |
| 15 | S | 17 | 35 | 44 | 23 | | 24 10 | 23 | | 18 | 3 | ♄ 40 | | 4 | | 7 | 24 | 57 | | 20 | | 45 |
| 16 | S | 17 | 39 | 41 | 24 | | 25 15 | 23 | | 21 | 18 | 55 | | 3 | | 8 | 26 | 8 | | 20 | | 47 |
| 17 | M | 17 | 43 | 37 | 25 | | 26 22 | 23 | | 23 | 4 | ♄ 6 | | 1 | 56 | 25 | 20 | | | 20 | | 49 |
| 18 | Tu | 17 | 47 | 34 | 26 | | 27 27 | 23 | | 25 | 19 | 4 | | 0 | 37 | 22 | 43 | | | 20 | | 51 |
| 19 | W | 17 | 51 | 30 | 27 | | 28 34 | 23 | | 26 | 3 | ♄ 41 | | 0 | S | 43 | 18 | 39 | | 20 | | 53 |
| 20 | Th | 17 | 55 | 27 | 28 | | 29 42 | 23 | | 27 | 17 | 51 | | 1 | 59 | 13 | 37 | | | 20 | | 55 |
| 21 | F | 17 | 59 | 23 | 29 | | 30 50 | 23 | | 28 | 1 | m 34 | | 3 | | 4 | 8 | 4 | | 20 | | 57 |
| 22 | S | 18 | 3 | 20 | 0 | w | 31 59 | 23 | | 28 | 14 | 50 | | 3 | 58 | 2 | 20 | | | 20 | | 59 |
| 23 | S | 18 | 7 | 17 | 1 | | 33 9 | 23 | | 27 | 27 | 41 | | 4 | 38 | 3 | S 19 | | | 21 | | 2 |
| 24 | M | 18 | 11 | 13 | 2 | | 34 20 | 23 | | 26 | 10 | ♄ 11 | | 5 | | 3 | 8 | 41 | | 21 | | 5 |
| 25 | Tu | 18 | 15 | 10 | 3 | | 35 31 | 23 | | 25 | 22 | 26 | | 5 | 14 | 13 | 36 | | | 21 | | 7 |
| 26 | W | 18 | 19 | 6 | 4 | | 36 42 | 23 | | 23 | 4 | m 28 | | 5 | 11 | 17 | 54 | | | 21 | | 9 |
| 27 | Th | 18 | 23 | 3 | 5 | | 37 54 | 23 | | 21 | 16 | 23 | | 4 | 55 | 21 | 27 | | | 21 | | 10 |
| 28 | F | 18 | 26 | 59 | 6 | | 39 7 | 23 | | 18 | 28 | 14 | | 4 | 26 | 24 | 6 | | | 21 | | 11 |
| 29 | S | 18 | 30 | 56 | 7 | | 40 19 | 23 | | 15 | 10 | ♄ 3 | | 3 | 46 | 25 | 42 | | | 21 | | 12 |
| 30 | S | 18 | 34 | 52 | 8 | | 41 32 | 23 | | 11 | 21 | 55 | | 2 | 56 | 26 | 8 | | | 21 | | 13 |
| 31 | M | 18 | 38 | 49 | 9 | | 42 45 | 23 | | 7 | 3 | w 50 | | 1 | 57 | 25 | 22 | | | 21 | | 14 |

DECEMBER XXXI DAYS.

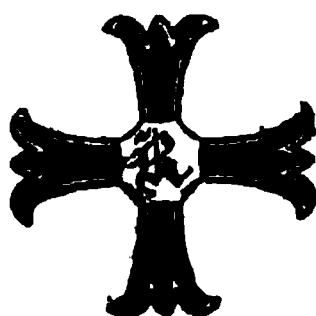
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 N 32 | 18 N 10 | 2 N 10 | 8 S 42 | 1 S 9 | 23 S 21 | 28 w 9 |
| 4 | 2 29 | 18 6 | 2 11 | 10 6 | 1 25 | 24 11 | 27 59 |
| 7 | 2 46 | 18 3 | 2 13 | 11 8 | 1 40 | 24 49 | 27 50 |
| 10 | 2 53 | 18 2 | 2 11 | 12 19 | 1 53 | 25 16 | 27 40 |
| 13 | 3 0 | 18 3 | 2 10 | 13 27 | 2 2 | 25 30 | 27 31 |
| 16 | 3 7 | 18 6 | 2 8 | 14 35 | 2 9 | 25 30 | 27 21 |
| 19 | 3 15 | 18 12 | 2 5 | 15 37 | 2 12 | 25 18 | 27 12 |
| 22 | 3 23 | 18 19 | 2 2 | 16 36 | 2 12 | 24 51 | 27 2 |
| 25 | 3 30 | 18 30 | 1 57 | 17 34 | 2 7 | 24 10 | 26 53 |
| 28 | 3 37 | 18 42 | 1 51 | 18 36 | 1 56 | 23 17 | 26 43 |
| 31 | 3 45 | 18 53 | 1 43 | 19 20 | 1 33 | 22 11 | 26 24 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 13 38 | 21 19 | 17 2 | 1 27 | 51 11 | ♂ ♀ | | | | | | |
| 2 | 13 43 | 21 22 | 17 13 | 18 29 | 2 13 | ♂ ♀ ♄ | ♂ | * | * | Δ | | ♂ |
| 3 | 13 48 | 21 45 | 17 25 | 0 14 | 14 45 | | | * | | | | |
| 4 | 13 53 | 21 58 | 17 36 | 1 25 | 16 19 | | | | | | * | |
| 5 | 13 58 | 22 11 | 17 47 | 2 37 | 17 53 | ♂ ♄ ♀ | ☐ | ☐ | * | | | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1805.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

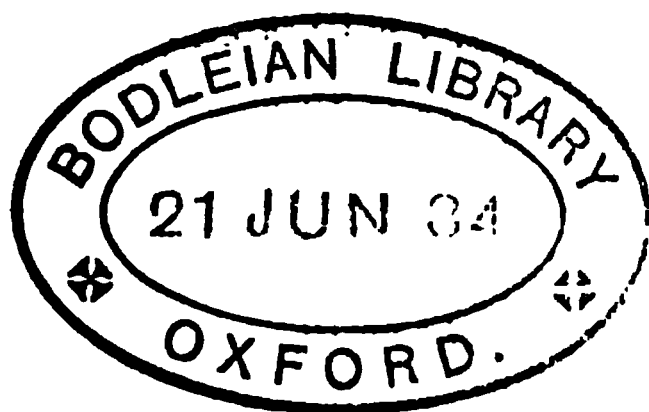
(Hm.) 927 v. 155

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1805.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ° | ' | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 N 38 | 7 30 | 2 N 26 | 3 56 | 0 N 52 | 18 3 48 |
| 4 | 16 | 15 | 0 38 | 7 32 | 2 27 | 3 58 | 0 52 | 18 56 |
| 7 | 16 | 16 | 0 38 | 7 33 | 2 28 | 3 59 | 0 52 | 19 3 |
| 10 | 16 | 16 | 0 38 | 7 34 | 2 29 | 4 0 | 0 52 | 19 9 |
| 13 | 16 | 17 | 0 38 | 7 34 | 2 30 | 4 1 | 0 53 | 19 16 |
| 16 | 16 | 17 | 0 38 | 7 35 | 2 30 | 4 2 | 0 53 | 19 23 |
| 19 | 16 | 17 | 0 38 | 7 35 | 2 31 | 4 2 | 0 53 | 19 29 |
| 22 | 16 | 18 | 0 38 | 7 36 | 2 32 | 4 2 | 0 53 | 19 34 |
| 25 | 16 | 18 | 0 38 | 7 36 | 2 33 | 4 1 | 0 53 | 19 39 |
| 28 | 16 | 18 | 0 38 | 7 36 | 2 33 | 4 0 | 0 53 | 19 44 |
| 31 | 16 | 18 | 0 38 | 7 36 | 2 34 | 3 59 | 0 53 | 19 49 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ☾
Long. | |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|-------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | Tu | 18 42 47 | 10 44 3 | 23 3 | 2 15 51 | 0 54 23 | 3 25 | 20 41 | |
| 2 | W | 18 46 43 | 11 45 16 | 22 57 27 | 59 | 0 N 13 20 | 22 | 20 42 | |
| 3 | Th | 18 50 39 | 12 46 23 | 22 51 10 | m 17 | 1 21 16 | 23 | 20 43 | |
| 4 | F | 18 54 36 | 13 47 40 | 22 45 22 | 45 | 2 25 11 | 40 | 20 44 | |
| 5 | S | 18 58 33 | 14 48 52 | 22 38 5 | x 26 | 3 24 6 | 22 | 20 45 | |
| 6 | S | 1 1 | 15 50 4 | 22 31 18 | 22 | 4 13 0 | 44 | 20 46 | |
| 7 | M | 1 3 | 16 51 15 | 22 24 1 | r 35 | 4 50 5 | N 4 | 20 47 | |
| 8 | Tu | 1 8 | 17 52 25 | 22 16 15 | 7 | 5 12 10 | 45 | 20 48 | |
| 9 | W | 1 9 | 18 53 34 | 22 8 29 | 0 | 5 17 16 | 4 | 20 49 | |
| 10 | Th | 1 11 | 19 54 43 | 21 59 13 | b 12 | 5 3 20 | 37 | 20 50 | |
| 11 | F | 19 23 13 | 20 55 51 | 21 50 27 | 42 | 4 29 24 | 2 | 20 51 | |
| 12 | S | 19 26 9 | 21 56 59 | 21 40 12 | 27 | 3 38 25 | 54 | 20 51 | |
| 13 | S | 19 30 6 | 22 58 5 | 21 30 27 | 20 | 2 31 25 | 57 | 20 52 | |
| 14 | M | 19 34 3 | 23 59 11 | 21 20 12 | 14 | 1 14 24 | 8 | 20 53 | |
| 15 | Tu | 19 37 59 | 25 0 17 | 21 9 27 | 1 | 0 8 8 | 20 | 39 | 20 53 |
| 16 | W | 19 41 55 | 26 1 22 | 20 58 11 | 34 | 1 23 15 | 56 | 20 54 | |
| 17 | Th | 19 45 52 | 27 2 26 | 20 46 25 | 46 | 2 40 10 | 26 | 20 54 | |
| 18 | F | 19 49 49 | 28 3 30 | 20 34 9 | m 35 | 3 41 4 | 34 | 20 55 | |
| 19 | S | 19 53 46 | 29 4 33 | 20 22 22 | 68 | 4 28 1 | S 18 | 20 55 | |
| 20 | S | 19 57 42 | 0 m 5 | 20 9 5 | 57 | 4 59 6 | 57 | 20 55 | |
| 21 | M | 20 1 39 | 1 6 8 | 19 58 18 | 33 | 5 15 12 | 8 | 20 56 | |
| 22 | Tu | 20 5 35 | 2 7 39 | 19 42 0 | m 51 | 5 16 16 | 48 | 20 56 | |
| 23 | W | 20 9 32 | 3 8 40 | 19 28 12 | 65 | 5 3 20 | 33 | 20 56 | |
| 24 | Th | 20 13 28 | 4 9 41 | 19 14 24 | 50 | 4 37 28 | 29 | 20 56 | |
| 25 | F | 20 17 25 | 5 10 40 | 19 0 6 | f 39 | 4 0 25 | 28 | 20 56 | |
| 26 | S | 20 21 23 | 6 11 39 | 18 45 18 | 29 | 3 12 26 | 9 | 20 56 | |
| 27 | S | 20 25 18 | 7 12 38 | 18 29 0 | w 22 | 2 16 25 | 44 | 20 56 | |
| 28 | M | 20 29 14 | 8 13 35 | 18 14 12 | 23 | 1 13 24 | 6 | 20 55 | |
| 29 | Tu | 20 33 12 | 9 14 32 | 17 58 24 | 33 | 0 6 21 | 20 | 20 55 | |
| 30 | W | 20 37 8 | 10 15 27 | 17 41 6 | m 55 | 1 N 2 17 | 34 | 20 55 | |
| 31 | Th | 20 41 4 | 11 16 23 | 17 25 19 | 30 | 2 8 13 | 57 | 20 55 | |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 3 N 48 | 19 N 3 | 1 N 44 | 19 S 30 | 1 S 30 | 21 S 47 | 26 w 33 |
| 4 | 3 55 | 19 22 | 1 37 | 19 40 | 1 1 | 20 31 | 26 23 |
| 7 | 4 2 | 19 39 | 1 31 | 20 51 | 0 23 | 19 13 | 26 14 |
| 10 | 4 8 | 20 0 | 1 24 | 21 20 | 0 N 25 | 18 2 | 26 4 |
| 13 | 4 14 | 20 21 | 1 16 | 21 50 | 1 18 | 17 8 | 25 54 |
| 16 | 4 19 | 20 44 | 1 8 | 22 10 | 2 14 | 16 39 | 25 45 |
| 19 | 4 24 | 21 7 | 0 59 | 22 27 | 3 0 | 16 37 | 25 35 |
| 22 | 4 27 | 21 29 | 0 51 | 22 35 | 3 28 | 16 59 | 25 26 |
| 25 | 4 30 | 21 52 | 0 43 | 22 40 | 3 34 | 17 32 | 25 16 |
| 28 | 4 31 | 22 14 | 0 35 | 22 35 | 3 21 | 18 11 | 25 7 |
| 31 | 4 32 | 22 34 | 0 26 | 22 26 | 2 56 | 18 47 | 24 57 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|---------|--------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 15 41 | 27 m 36 | 18 Ω 4 | 5 ♀ 20 | 29 w 18 | | ♂ | ☐ | ☐ | | | | |
| 2 | 15 44 | 27 48 | 17 ♀ 53 | 6 34 | 0 m 36 | | | | | * | | | ♂ |
| 3 | 15 46 | 27 59 | 17 41 | 7 48 | 1 49 | | | | Δ | | | * | |
| 4 | 15 48 | 28 10 | 17 29 | 9 1 | 2 56 | | | Δ | | ☐ | ♂ | | |
| 5 | 15 50 | 28 21 | 17 16 | 10 15 | 3 58 | | | | | | | ☐ | |
| 6 | 15 52 | 28 32 | 17 8 | 11 29 | 4 55 | ☉ ☐ h | * | | | | | | |
| 7 | 15 54 | 28 43 | 16 50 | 12 42 | 5 46 | | | | | Δ | | | * |
| 8 | 15 56 | 28 54 | 16 35 | 13 56 | 6 29 | | ☐ | ♂ | ♂ | | Δ | Δ | |
| 9 | 15 58 | 29 4 | 16 19 | 15 10 | 7 3 | ♀ Δ ♂ | | | | | | | ☐ |
| 10 | 15 59 | 29 15 | 16 8 | 16 24 | 7 27 | ♀ * h | Δ | | | | ☐ | | |
| 11 | 16 1 | 29 25 | 15 46 | 17 38 | 7 41 | ☉ ☐ h | | | | ♂ | | | |
| 12 | 16 3 | 29 36 | 15 28 | 18 52 | 7 ♀ 43 | | | | Δ | | * | ♂ | Δ |
| 13 | 16 4 | 29 46 | 15 9 | 20 6 | 7 34 | | | | Δ | | | | |
| 14 | 16 5 | 29 56 | 14 50 | 21 19 | 7 14 | ♀ * h | | | | ☐ | | | |
| 15 | 16 6 | 0 ♀ 6 | 14 30 | 22 33 | 6 42 | | ♂ | ☐ | | Δ | | | |
| 16 | 16 7 | 0 16 | 14 10 | 23 47 | 5 57 | | | | * | | ♂ | | ♂ |
| 17 | 16 8 | 0 26 | 13 49 | 25 1 | 5 3 | | | * | | ☐ | | Δ | |
| 18 | 16 9 | 0 36 | 13 28 | 26 15 | 4 1 | | | | | | | | |
| 19 | 16 10 | 0 46 | 13 6 | 27 29 | 2 52 | ♂ * ♈ | | | | | | ☐ | |
| 20 | 16 11 | 0 56 | 12 43 | 28 43 | 1 39 | ☉ ♂ ♀ | Δ | | | * | | | Δ |
| 21 | 16 11 | 1 5 | 12 20 | 29 57 | 0 23 | ☉ * ♈ | | ♂ | ♂ | | * | | |
| 22 | 16 11 | 1 15 | 11 57 | 1 w 11 | 29 w 6 | | ☐ | | | | | * | ☐ |
| 23 | 16 12 | 1 24 | 11 34 | 2 25 | 27 52 | | | | | | ☐ | | |
| 24 | 16 12 | 1 43 | 11 11 | 3 39 | 26 42 | | | | | | | | * |
| 25 | 16 ♀ 12 | 1 43 | 10 48 | 4 54 | 25 36 | | * | | | ♂ | Δ | | |
| 26 | 16 12 | 1 52 | 10 24 | 6 8 | 24 37 | | | * | * | | | | |
| 27 | 16 12 | 2 0 | 10 0 | 7 22 | 23 47 | | | | | | | | |
| 28 | 16 11 | 2 9 | 9 36 | 8 36 | 23 6 | | | | | | | ♂ | |
| 29 | 16 11 | 2 17 | 9 12 | 9 50 | 22 33 | ☉ ♂ ♂ | ☉ | ♂ | ☐ | ☐ | * | ♂ | ♂ |
| 30 | 16 10 | 2 26 | 8 48 | 11 4 | 22 9 | | ♂ | | | * | ♂ | | |
| 31 | 16 9 | 2 34 | 8 24 | 12 18 | 21 54 | | | Δ | Δ | | | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 39 | 7 S 35 | 2 N 35 | 3 S 58 | 0 N 54 | 19 S 51 |
| 4 | 16 | 15 | 0 39 | 7 34 | 2 35 | 3 56 | 0 54 | 19 56 |
| 7 | 16 | 14 | 0 39 | 7 33 | 2 36 | 3 54 | 0 54 | 20 0 |
| 10 | 16 | 14 | 0 39 | 7 32 | 2 37 | 3 52 | 0 54 | 20 4 |
| 18 | 16 | 13 | 0 39 | 7 30 | 2 38 | 3 49 | 0 55 | 20 7 |
| 16 | 16 | 12 | 0 39 | 7 29 | 2 38 | 3 46 | 0 55 | 20 10 |
| 19 | 16 | 11 | 0 39 | 7 28 | 2 39 | 3 43 | 0 55 | 20 13 |
| 22 | 16 | 11 | 0 39 | 7 27 | 2 40 | 3 39 | 0 55 | 20 16 |
| 25 | 16 | 10 | 0 39 | 7 25 | 2 41 | 3 35 | 0 56 | 20 18 |
| 28 | 16 | 10 | 0 39 | 7 24 | 2 41 | 3 31 | 0 56 | 20 20 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin. | | | ♃
Long. | | |
|--------|--------|-------------------|----|----|------------|---|-------|--------------|---|-------|------------|----|----|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | F | 20 | 44 | 59 | 12 | m | 17 15 | 17 | S | 8 | 2 | × | 19 |
| 2 | S | 20 | 48 | 55 | 13 | | 18 7 | 16 | | 51 15 | 22 | 4 | 1 |
| 3 | S | 20 | 52 | 52 | 14 | | 18 57 | 16 | | 33 28 | 38 | 4 | 41 |
| 4 | M | 20 | 56 | 49 | 15 | | 19 46 | 16 | | 15 12 | r | 7 | 5 |
| 5 | Tu | 21 | 0 | 45 | 16 | | 20 33 | 15 | | 57 25 | 48 | 5 | 15 |
| 6 | W | 21 | 4 | 41 | 17 | | 21 19 | 15 | | 39 9 | 41 | 5 | 6 |
| 7 | Th | 21 | 8 | 38 | 18 | | 22 3 | 15 | | 20 23 | 44 | 4 | 38 |
| 8 | F | 21 | 12 | 34 | 19 | | 22 46 | 15 | | 1 7 | □ | 57 | 8 |
| 9 | S | 21 | 16 | 31 | 20 | | 23 26 | 14 | | 42 22 | 17 | 2 | 53 |
| 10 | S | 21 | 20 | 28 | 21 | | 24 5 | 14 | | 23 6 | 42 | 1 | 42 |
| 11 | M | 21 | 24 | 24 | 22 | | 24 42 | 14 | | 3 21 | 7 | 0 | 24 |
| 12 | Tu | 21 | 28 | 21 | 23 | | 25 18 | 13 | | 44 5 | 29 | 0 | 8 |
| 13 | W | 21 | 32 | 17 | 24 | | 25 52 | 13 | | 24 19 | 42 | 2 | 9 |
| 14 | Th | 21 | 36 | 14 | 25 | | 26 24 | 13 | | 3 3 | m | 41 | 3 |
| 15 | F | 21 | 40 | 11 | 26 | | 26 55 | 12 | | 43 17 | 23 | 4 | 7 |
| 16 | S | 21 | 44 | 7 | 27 | | 27 24 | 12 | | 22 0 | 45 | 4 | 44 |
| 17 | S | 21 | 48 | 4 | 28 | | 27 52 | 12 | | 1 13 | 45 | 5 | 6 |
| 18 | M | 21 | 52 | 0 | 29 | | 28 19 | 11 | | 40 26 | 24 | 5 | 12 |
| 19 | Tu | 21 | 55 | 57 | 0 | × | 28 44 | 11 | | 19 8 | m | 45 | 5 |
| 20 | W | 21 | 59 | 53 | 1 | | 29 8 | 10 | | 57 20 | 51 | 4 | 41 |
| 21 | Th | 22 | 3 | 50 | 2 | | 29 30 | 10 | | 36 2 | f | 47 | 4 |
| 22 | F | 22 | 7 | 47 | 3 | | 29 51 | 10 | | 14 14 | 37 | 3 | 22 |
| 23 | S | 22 | 11 | 43 | 4 | | 30 10 | 9 | | 52 26 | 26 | 2 | 29 |
| 24 | S | 22 | 15 | 39 | 5 | | 30 28 | 9 | | 30 8 | w | 21 | 1 |
| 25 | M | 22 | 19 | 36 | 6 | | 30 45 | 9 | | 8 20 | 25 | 0 | 25 |
| 26 | Tu | 22 | 23 | 33 | 7 | | 31 0 | 8 | | 46 2 | m | 42 | 0 |
| 27 | W | 22 | 27 | 29 | 8 | | 31 13 | 8 | | 23 15 | 16 | 1 | 47 |
| 28 | Th | 22 | 31 | 26 | 9 | | 31 25 | 8 | | 0 28 | 8 | 2 | 49 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Nodes. |
|--------|--------|---------|--------|---------|----------|---------|------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 4 N 32 | 22 N 40 | 0 N 22 | 22 S 25 | 2 N 45 | 18 S 59 | 24 w 54 |
| 4 | 4 31 | 23 0 | 0 18 | 23 4 | 2 12 | 19 28 | 24 44 |
| 7 | 4 29 | 23 18 | 0 5 | 31 45 | 1 37 | 19 52 | 24 35 |
| 10 | 4 27 | 23 28 | 0 8 3 | 21 17 | 1 2 | 20 2 | 24 25 |
| 13 | 4 24 | 23 38 | 0 12 | 20 42 | 0 30 | 20 4 | 24 16 |
| 16 | 4 20 | 23 47 | 0 19 | 19 58 | 0 0 | 19 55 | 24 6 |
| 19 | 4 15 | 23 53 | 0 28 | 19 17 | 0 8 28 | 19 35 | 23 57 |
| 22 | 4 10 | 23 56 | 0 35 | 18 23 | 0 58 | 19 3 | 23 47 |
| 25 | 4 4 | 23 59 | 0 43 | 17 38 | 1 14 | 18 20 | 23 38 |
| 28 | 3 59 | 24 0 | 0 50 | 16 26 | 1 33 | 17 25 | 23 28 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|--------|--------|---------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 16 Δ 8 | 2 ♀ 42 | 8 Ω 0 | 13 w 33 | 31 w 47 | | | | | | | | |
| 2 | 16 ♀ 7 | 2 51 | 7 ♀ 36 | 14 47 | 21 ♀ 45 | | | | | Δ | * | * | |
| 3 | 16 6 | 2 59 | 7 18 | 16 1 | 31 D 51 | ♀ ☐ ♀ | | | | | | | |
| 4 | 16 5 | 3 7 | 6 50 | 17 15 | 23 10 | ☉ Δ ♀ | * | | ♂ | | Δ | ☐ | |
| 5 | 16 4 | 3 15 | 6 27 | 18 30 | 23 33 | | | | ♂ | | | | ☐ |
| 6 | 16 3 | 3 23 | 6 4 | 19 44 | 23 59 | | | | | | | ☐ | |
| 7 | 16 2 | 3 31 | 5 42 | 20 59 | 23 29 | ♀ ☐ ☿ | ☐ | | | | | Δ | Δ |
| 8 | 16 1 | 3 38 | 5 20 | 22 13 | 24 4 | | | | | | ♂ | * | |
| 9 | 15 59 | 3 45 | 4 59 | 23 27 | 24 45 | ☉ Δ ☿ | Δ | Δ | Δ | | | | |
| 10 | 15 57 | 3 52 | 4 38 | 24 42 | 25 31 | | | | | | | | |
| 11 | 15 55 | 3 59 | 4 18 | 25 5 | | | | | | | | ♂ | ♂ |
| 12 | 15 53 | 4 5 | 3 58 | 27 1 | | | | | | | | | |
| 13 | 15 51 | 4 11 | 3 39 | 28 2 | | | | | | | | | |
| 14 | 15 49 | 4 18 | 3 21 | 29 3 | | | | | | | | | |
| 15 | 15 47 | 4 24 | 3 3 | 0 m 51 | | | | | | | | | |
| 16 | 15 45 | 4 30 | 2 46 | 3 8 | 1 12 | ♀ ♀ ♀ | | | | * | ■ | Δ | Δ |
| 17 | 15 43 | 4 36 | 2 29 | 3 23 | 2 18 | ♀ ♀ ♀ | | | | ♂ | | | |
| 18 | 15 41 | 4 42 | 2 13 | 4 36 | 3 26 | ♀ * ♀ | Δ | ♂ | | | ☐ | ☐ | |
| 19 | 15 38 | 4 48 | 1 58 | 5 51 | 4 36 | ♀ * ♀ | | | | | | ☐ | ☐ |
| 20 | 15 36 | 4 54 | 1 44 | 7 5 | 5 46 | | | | | | | | |
| 21 | 15 33 | 4 59 | 1 31 | 8 19 | 7 2 | | | ☐ | | | ♂ | Δ | |
| 22 | 15 30 | 5 4 | 1 18 | 9 34 | 8 18 | | | | * | | | ■ | * |
| 23 | 15 27 | 5 9 | 1 6 | 10 48 | 9 36 | | | | * | | | | |
| 24 | 15 24 | 5 14 | 55 | 12 2 | 10 55 | ☉ ☐ ♀ | * | | | | | | |
| 25 | 15 21 | 5 19 | 4 4 | 13 17 | 12 15 | | | ☐ | ☐ | | | | |
| 26 | 15 18 | 5 23 | 0 34 | 14 31 | 13 37 | | | | | * | ♂ | | |
| 27 | 15 15 | 5 27 | 0 25 | 15 45 | 15 0 | ♀ Δ ♀ | | Δ | Δ | | | ♂ | ♂ |
| 28 | 15 12 | 5 31 | 0 16 | 16 59 | 16 25 | ♀ Δ ♀ | | | | | | | |

MARCH XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 89 | 7 S 23 | 2 N 44 | 3 S 29 | 0 N 56 | 20 S 20 |
| 2 | 16 | 9 | 0 89 | 7 20 | 2 42 | 3 24 | 0 56 | 20 22 |
| 7 | 16 | 8 | 0 89 | 7 18 | 2 43 | 3 19 | 0 57 | 20 23 |
| 10 | 16 | 8 | 0 89 | 7 15 | 2 43 | 3 14 | 0 57 | 20 24 |
| 18 | 16 | 7 | 0 89 | 7 13 | 2 44 | 3 9 | 0 57 | 20 25 |
| 16 | 16 | 6 | 0 89 | 7 11 | 2 44 | 3 4 | 0 57 | 20 25 |
| 19 | 16 | 5 | 0 89 | 7 8 | 2 44 | 3 59 | 0 58 | 20 26 |
| 22 | 16 | 4 | 0 89 | 7 6 | 2 44 | 2 54 | 0 58 | 20 26 |
| 25 | 16 | 3 | 0 89 | 7 3 | 2 45 | 2 48 | 0 58 | 20 26 |
| 28 | 16 | 3 | 0 89 | 7 1 | 2 45 | 2 43 | 0 58 | 20 25 |
| 31 | 16 | 2 | 0 89 | 6 58 | 2 45 | 2 36 | 0 58 | 20 24 |

| D
M | | Sidereal Time. | | ☉ Long. | ☉ Declin | ☽ Long. | ☽ Lat. | ☽ Declin | ♂ Long. | |
|--------|----|----------------|----|---------|------------|---------|---------|----------|---------|---------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | | 22 | 35 | 26 | 10 x 31 34 | 7 S 38 | 11 x 18 | 3 N 44 | 3 S 53 | 20 x 24 |
| 2 | | 22 | 39 | 21 | II 31 42 | 7 15 | 24 46 | 4 27 | 2 N 0 | 20 23 |
| 3 | | 22 | 43 | 17 | III 31 48 | 6 52 | 8 r 29 | 4 55 | 7 58 | 20 21 |
| 4 | | 22 | 47 | 14 | 13 31 52 | 6 29 | 22 24 | 5 7 | 13 28 | 20 19 |
| 5 | | 22 | 51 | 10 | 14 31 54 | 6 6 | 6 26 | 5 1 | 18 34 | 20 17 |
| 6 | W | 22 | 55 | 7 | 15 31 53 | 5 43 | 20 34 | 4 36 | 22 20 | 20 15 |
| 7 | Th | 22 | 59 | 4 | 16 31 50 | 5 19 | 4 42 | 3 54 | 24 56 | 20 13 |
| 8 | F | 23 | 3 | 0 | 17 31 45 | 4 56 | 18 50 | 2 58 | 26 57 | 20 11 |
| 9 | S | 23 | 6 | 58 | 18 31 38 | 4 33 | 2 57 | 1 52 | 25 18 | 20 9 |
| 10 | S | 23 | 10 | 53 | 19 31 28 | 4 9 | 17 0 | 0 39 | 23 1 | 20 6 |
| 11 | M | 23 | 14 | 50 | 20 31 17 | 3 46 | 0 2 59 | 0 S 36 | 19 32 | 20 4 |
| 12 | Tu | 23 | 18 | 46 | 21 31 2 | 3 22 | 14 58 | 1 48 | 14 40 | 20 1 |
| 13 | W | 23 | 22 | 42 | 22 30 46 | 2 58 | 28 38 | 2 58 | 9 16 | 19 59 |
| 14 | Th | 23 | 26 | 39 | 23 30 28 | 2 35 | 12 14 | 3 1 | 3 28 | 19 57 |
| 15 | F | 23 | 30 | 35 | 24 30 7 | 2 11 | 25 37 | 4 28 | 2 S 21 | 19 55 |
| 16 | S | 23 | 34 | 32 | 25 29 45 | 1 48 | 8 45 | 4 53 | 7 58 | 19 53 |
| 17 | S | 23 | 38 | 28 | 26 29 20 | 1 21 | 31 37 | 5 3 | 13 7 | 19 51 |
| 18 | M | 23 | 42 | 25 | 27 28 54 | 1 0 | 4 12 | 4 58 | 17 36 | 19 49 |
| 19 | Tu | 23 | 46 | 22 | 28 28 26 | 0 36 | 16 31 | 4 39 | 21 15 | 19 47 |
| 20 | W | 23 | 50 | 18 | 29 27 56 | 0 13 | 28 37 | 4 8 | 23 54 | 19 44 |
| 21 | Th | 23 | 54 | 15 | 0 r 27 24 | 0 N 11 | 10 f 32 | 3 26 | 25 27 | 19 42 |
| 22 | F | 23 | 58 | 11 | 1 26 50 | 0 35 | 22 22 | 2 35 | 25 50 | 19 40 |
| 23 | S | 0 | 2 | 8 | 2 26 15 | 0 58 | 4 11 | 1 33 | 25 2 | 19 38 |
| 24 | S | 0 | 6 | 4 | 3 25 38 | 1 22 | 16 5 | 0 36 | 23 6 | 19 35 |
| 25 | M | 0 | 10 | 0 | 4 24 59 | 1 45 | 28 10 | 0 N 23 | 20 6 | 19 32 |
| 26 | Tu | 0 | 13 | 57 | 5 24 18 | 2 9 | 10 29 | 1 32 | 16 9 | 19 29 |
| 27 | W | 0 | 17 | 53 | 6 23 36 | 2 32 | 23 9 | 2 33 | 11 34 | 19 27 |
| 28 | Th | 0 | 21 | 50 | 7 22 52 | 2 56 | 6 11 | 3 23 | 6 3 | 19 25 |
| 29 | F | 0 | 25 | 46 | 8 22 6 | 3 19 | 19 37 | 4 13 | 0 14 | 19 23 |
| 30 | S | 0 | 29 | 43 | 9 21 18 | 3 43 | 3 r 26 | 4 45 | 5 N 43 | 19 20 |
| 31 | S | 0 | 33 | 39 | 10 20 27 | 4 6 | 17 34 | 5 0 | 11 32 | 19 17 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 3 N 56 | 23 N 59 | 0 S 52 | 16 S 12 | 1 S 38 | 17 S 3 | 23 w 25 |
| 4 | 3 50 | 23 56 | 0 57 | 15 7 | 1 53 | 15 53 | 23 16 |
| 7 | 3 44 | 23 53 | 1 3 | 13 58 | 2 4 | 14 31 | 23 6 |
| 10 | 3 38 | 23 48 | 1 8 | 12 44 | 2 11 | 12 57 | 22 57 |
| 13 | 3 31 | 23 40 | 1 13 | 11 31 | 2 14 | 11 11 | 22 47 |
| 16 | 3 25 | 23 31 | 1 17 | 10 17 | 2 13 | 9 15 | 22 38 |
| 19 | 3 18 | 23 22 | 1 20 | 8 53 | 2 8 | 7 7 | 22 28 |
| 22 | 3 12 | 23 12 | 1 23 | 7 30 | 1 59 | 4 49 | 22 19 |
| 25 | 3 5 | 23 1 | 1 26 | 6 5 | 1 45 | 2 20 | 22 9 |
| 28 | 2 59 | 22 48 | 1 28 | 4 37 | 1 27 | 0 N 17 | 22 0 |
| 31 | 2 53 | 22 35 | 1 29 | 3 10 | 1 3 | 3 4 | 21 50 |

| D
M | h | Long. | ☿
Long. | ♂
Long. | ♀
Long. | ♂
Long. | ♀
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----|-------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ |
| | | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 15 | 8 | 5 ♄ 35 | 0 ♄ 9 | 18 ♄ 14 | 17 ♄ 50 | | | ♂ | | | | ☐ | | |
| 2 | 15 | 4 | 5 39 | 0 3 | 19 28 | 19 17 | ♂ Δ ☿ | | | | | | Δ | | |
| 3 | 15 | 1 | 5 43 | 29 ☿ 58 | 20 42 | 20 45 | ♀ Δ ☿ | | | | ♂ | | Δ | | |
| 4 | 14 | 58 | 5 46 | 29 53 | 21 57 | 22 15 | ♂ ☉ ♀ | | ♂ | | ♂ | | | * | * |
| 5 | 14 | 54 | 5 49 | 29 49 | 23 11 | 23 46 | | | | | | | ☐ | | |
| 6 | 14 | 51 | 5 53 | 29 45 | 24 25 | 25 18 | | | * | | | | ♂ | * | ☐ |
| 7 | 14 | 47 | 5 56 | 29 42 | 25 40 | 26 50 | | | | | | | ♂ | * | ☐ |
| 8 | 14 | 43 | 5 59 | 29 40 | 26 54 | 28 23 | | | ☐ | Δ | Δ | | | | |
| 9 | 14 | 39 | 6 1 | 29 39 | 28 8 | 29 58 | | | | | | | | Δ | Δ |
| 10 | 14 | 35 | 6 4 | 29 D 39 | 29 23 | 1 * 36 | | | Δ | ☐ | ☐ | | | | |
| 11 | 14 | 31 | 6 6 | 29 39 | 0 * 37 | 3 15 | | | | | | | Δ | ♂ | |
| 12 | 14 | 27 | 6 8 | 29 40 | 1 51 | 4 54 | | | | * | * | | | | |
| 13 | 14 | 23 | 6 10 | 29 42 | 3 6 | 6 33 | | | | | | | | ♂ | |
| 14 | 14 | 19 | 6 12 | 29 45 | 4 20 | 8 14 | | | | | | ☐ | | | ♂ |
| 15 | 14 | 15 | 6 13 | 29 48 | 5 24 | 9 56 | | | ♂ | | | | | * | |
| 16 | 14 | 11 | 6 14 | 29 52 | 6 49 | 11 40 | | | | ♂ | ♂ | * | | | |
| 17 | 14 | 6 | 6 15 | 29 57 | 8 8 | 13 29 | | | | ♂ | | | | | |
| 18 | 14 | 2 | 6 16 | 0 ♄ 2 | 9 17 | 15 19 | | | | | | | | ☐ | Δ |
| 19 | 13 | 57 | 6 17 | 0 8 | 10 32 | 16 59 | | | | | | | | | Δ |
| 20 | 13 | 52 | 6 18 | 0 14 | 11 46 | 18 48 | | | Δ | | | | | Δ | |
| 21 | 13 | 48 | 6 18 | 0 21 | 13 0 | 20 38 | ☉ Δ ♂ | | | | * | ♂ | | ☐ | |
| 22 | 13 | 44 | 6 19 | 0 29 | 14 14 | 22 29 | | | | * | * | | | | ☐ |
| 23 | 13 | 39 | 6 19 | 0 33 | 15 28 | 24 21 | | | ☐ | | | | | | |
| 24 | 13 | 35 | 6 19 | 0 46 | 16 42 | 26 15 | | | | ☐ | ☐ | | | * | |
| 25 | 13 | 30 | 6 19 | 0 56 | 17 57 | 28 11 | | | | | | | ♂ | | * |
| 26 | 13 | 25 | 6 18 | 1 6 | 19 11 | 0 r 8 | ♂ Δ ♂ | * | | | Δ | * | | | |
| 27 | 13 | 21 | 6 17 | 1 17 | 20 25 | 2 6 | ☉ Δ ♀ | | | Δ | | | | | |
| 28 | 13 | 16 | 6 16 | 1 28 | 21 40 | 4 4 | | | | | | | ☐ | | |
| 29 | 13 | 12 | 6 15 | 1 40 | 22 54 | 6 4 | ♂ Δ ♀ | | | | | | | ♂ | |
| 30 | 13 | 7 | 6 14 | 1 52 | 24 8 | 8 5 | | | ♂ | | | | Δ | Δ | ♂ |
| 31 | 13 | 3 | 6 13 | 2 5 | 25 22 | 10 7 | ☉ ♂ ♀ | | ♂ | ♂ | ♂ | | | | |



APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 N52 | 22 N28 | 1 N29 | 28 43 | 0 N 66 | 3 N59 | 21 w47 |
| 4 | 2 46 | 22 12 | 1 29 | 1 10 | 0 26 | 6 49 | 21 37 |
| 7 | 2 41 | 21 55 | 1 29 | 0 N14 | 0 N 5 | 9 38 | 21 28 |
| 10 | 2 36 | 21 38 | 1 28 | 1 43 | 0 39 | 12 21 | 21 18 |
| 13 | 2 30 | 21 19 | 1 28 | 2 11 | 1 12 | 14 53 | 21 8 |
| 16 | 2 25 | 21 0 | 1 24 | 4 38 | 1 42 | 17 8 | 20 59 |
| 19 | 2 20 | 20 39 | 1 22 | 6 7 | 2 8 | 19 1 | 20 49 |
| 22 | 2 15 | 20 17 | 1 19 | 7 34 | 2 28 | 20 32 | 20 40 |
| 25 | 2 11 | 19 55 | 1 15 | 8 59 | 2 40 | 21 40 | 20 30 |
| 28 | 2 7 | 19 31 | 1 11 | 10 19 | 2 48 | 22 25 | 20 21 |

| D
M | h | | M | | J | | Q | | Q | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|------|-------|------|-------|------|-------|------|-------|------|------------------|----------------|---|---|---|---|---|
| | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | | ☉ | ☽ | ☿ | ♂ | ♀ | ♂ |
| 1 | 12 | 58 | 6 | 11 | 2 | 18 | 26 | 87 | 12 | 10 | | | | | | | |
| 2 | 12 | 54 | 6 | 9 | 2 | | 27 | 51 | 14 | 13 | | | | | | | |
| 3 | 12 | 49 | 6 | 7 | 2 | 47 | 29 | 5 | 16 | 17 | ☉ ☿ h | | | | | | |
| 4 | 12 | 41 | 6 | 5 | 2 | | 0 | 19 | 18 | 23 | ☿ ☽ h | * | Δ | Δ | | | * |
| 5 | 12 | 40 | 6 | 2 | 3 | 17 | 1 | 33 | 20 | 28 | | | | | | | |
| 6 | 12 | 35 | 6 | 0 | 3 | 38 | 2 | 48 | 22 | 38 | | | | | | | |
| 7 | 12 | 30 | 5 | 57 | 3 | 49 | 4 | 24 | 37 | | ♀ Δ ♂ | | | | | | |
| 8 | 12 | 26 | 5 | 54 | 4 | 5 | 5 | 16 | 26 | 41 | ♀ Δ ♀ | | | | | | |
| 9 | 12 | 21 | 5 | 51 | 4 | 23 | 6 | 30 | 28 | 44 | ☉ ☽ h | Δ | * | | | | |
| 10 | 12 | 17 | 5 | 46 | 4 | 40 | 7 | 44 | 0 | 46 | | | | | | | |
| 11 | 12 | 12 | 5 | 44 | 4 | 58 | 8 | 58 | 2 | 46 | | | | | | | |
| 12 | 12 | 8 | 5 | 41 | 5 | 16 | 10 | 12 | 4 | 44 | ☿ ☽ h | | | | | | |
| 13 | 12 | 3 | 5 | 37 | 5 | 35 | 11 | 26 | 6 | 40 | ☽ Δ ♀ | ☿ | ♂ | ♂ | | | |
| 14 | 11 | 59 | 5 | 33 | 5 | 54 | 12 | 40 | 8 | 33 | | | | | | | |
| 15 | 11 | 54 | 5 | 29 | 6 | | 13 | 54 | 10 | 28 | | | | | | | |
| 16 | 11 | 50 | 5 | 25 | 6 | 33 | 15 | 8 | 12 | 10 | | | | | | | |
| 17 | 11 | 45 | 5 | 20 | 6 | 53 | 16 | 22 | 13 | 54 | | | | | | | |
| 18 | 11 | 41 | 5 | 16 | 7 | 13 | 17 | 36 | 15 | 34 | | | | | | | |
| 19 | 11 | 36 | 5 | 11 | 7 | 34 | 18 | 50 | 17 | 9 | ♀ ☽ h | Δ | | | | | |
| 20 | 11 | 32 | 5 | 6 | 7 | 55 | 20 | 4 | 18 | 40 | | | | | | | |
| 21 | 11 | 28 | 5 | 1 | 8 | 17 | 21 | 18 | 20 | 7 | | | | | | | |
| 22 | 11 | 23 | 4 | 56 | 8 | 39 | 22 | 32 | 21 | 31 | | | | | | | |
| 23 | 11 | 19 | 4 | 50 | 9 | 1 | 23 | 46 | 22 | 50 | | | | | | | |
| 24 | 11 | 16 | 4 | 46 | 9 | 23 | 25 | 0 | 24 | 8 | | | | | | | |
| 25 | 11 | 11 | 4 | 39 | 9 | 46 | 26 | 14 | 25 | 11 | | | | | | | |
| 26 | 11 | 7 | 4 | 33 | 10 | 9 | 27 | 28 | 26 | 14 | | | | | | | |
| 27 | 11 | 3 | 4 | 27 | 10 | 32 | 28 | 42 | 27 | 13 | | | | | | | |
| 28 | 11 | 0 | 4 | 21 | 10 | 56 | 29 | 56 | 28 | 8 | | | | | | | |
| 29 | 10 | 56 | 4 | 16 | 11 | 20 | 1 | 10 | 28 | 58 | | | | | | | |
| 30 | 10 | 52 | 4 | 9 | 11 | 44 | 2 | 24 | 29 | 40 | | | | | | | |

MAY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 39 | 6 S 28 | 2 N 43 | 1 S 47 | 1 N 0 | 20 S 0 |
| 4 | 15 | 54 | 0 39 | 6 26 | 2 43 | 1 43 | 1 0 | 19 56 |
| 7 | 15 | 53 | 0 39 | 6 23 | 2 43 | 1 39 | 1 0 | 19 52 |
| 10 | 15 | 52 | 0 39 | 6 20 | 2 42 | 1 36 | 1 0 | 19 48 |
| 13 | 15 | 51 | 0 39 | 6 18 | 2 41 | 1 33 | 0 59 | 19 44 |
| 16 | 15 | 51 | 0 39 | 6 16 | 2 41 | 1 30 | 0 59 | 19 40 |
| 19 | 15 | 50 | 0 39 | 6 14 | 2 40 | 1 28 | 0 59 | 19 36 |
| 22 | 15 | 50 | 0 39 | 6 13 | 2 40 | 1 26 | 0 59 | 19 31 |
| 25 | 15 | 49 | 0 39 | 6 11 | 2 39 | 1 25 | 0 58 | 19 27 |
| 28 | 15 | 49 | 0 39 | 6 9 | 2 39 | 1 24 | 0 58 | 19 23 |
| 31 | 15 | 48 | 0 39 | 6 8 | 2 38 | 1 22 | 0 58 | 19 19 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 2 35 52 | 10 37 29 | 15 N 2 | 10 13 30 | 3 N 9 | 25 N 10 | 17 59 |
| 2 | Th | 2 39 49 | 11 35 37 | 15 20 | 25 18 | 2 2 | 25 24 | 17 57 |
| 3 | F | 2 43 46 | 12 33 44 | 15 37 | 9 54 | 0 47 | 23 53 | 17 55 |
| 4 | S | 2 47 42 | 13 31 49 | 15 55 | 24 13 | 0 S 29 | 20 49 | 17 53 |
| 5 | S | 2 51 38 | 14 29 51 | 16 12 | 8 13 | 1 42 | 16 35 | 17 51 |
| 6 | M | 2 55 35 | 15 27 52 | 16 29 | 21 55 | 2 47 | 11 35 | 17 49 |
| 7 | Tu | 2 59 31 | 16 25 51 | 16 46 | 5 19 | 3 42 | 6 8 | 17 47 |
| 8 | W | 3 3 28 | 17 23 48 | 17 3 | 18 28 | 4 24 | 0 81 | 17 45 |
| 9 | Th | 3 7 25 | 18 21 43 | 17 19 | 1 22 | 4 51 | 5 S 0 | 17 43 |
| 10 | F | 3 11 21 | 19 19 37 | 17 35 | 14 4 | 5 4 | 10 13 | 17 40 |
| 11 | S | 3 15 18 | 20 17 28 | 17 50 | 26 35 | 5 1 | 14 56 | 17 38 |
| 12 | S | 3 19 15 | 21 15 19 | 18 6 | 8 55 | 4 45 | 18 59 | 17 36 |
| 13 | M | 3 23 11 | 22 13 7 | 18 21 | 21 6 | 4 16 | 22 9 | 17 34 |
| 14 | Tu | 3 27 8 | 23 10 54 | 18 35 | 3 8 | 3 35 | 24 19 | 17 32 |
| 15 | W | 3 31 4 | 24 8 40 | 18 50 | 15 3 | 2 46 | 25 22 | 17 30 |
| 16 | Th | 3 35 0 | 25 6 25 | 19 4 | 26 53 | 1 49 | 25 15 | 17 29 |
| 17 | F | 3 38 57 | 26 4 8 | 19 17 | 8 40 | 0 48 | 23 58 | 17 27 |
| 18 | S | 3 42 53 | 27 1 50 | 19 31 | 20 29 | 0 N 16 | 21 38 | 17 26 |
| 19 | S | 3 46 51 | 27 59 31 | 19 44 | 2 23 | 1 19 | 18 22 | 17 24 |
| 20 | M | 3 50 47 | 28 57 11 | 19 57 | 14 26 | 2 20 | 14 17 | 17 22 |
| 21 | Tu | 3 54 44 | 29 54 51 | 20 9 | 26 44 | 3 16 | 9 33 | 17 20 |
| 22 | W | 3 58 40 | 0 52 29 | 20 21 | 9 21 | 4 4 | 4 19 | 17 18 |
| 23 | Th | 4 2 36 | 1 50 6 | 20 33 | 22 23 | 4 40 | 1 N 16 | 17 16 |
| 24 | F | 4 6 33 | 2 47 43 | 20 44 | 5 52 | 5 3 | 6 58 | 17 15 |
| 25 | S | 4 10 30 | 3 45 19 | 20 55 | 19 49 | 5 9 | 12 31 | 17 13 |
| 26 | S | 4 14 26 | 4 42 53 | 21 6 | 4 14 | 4 56 | 17 35 | 17 12 |
| 27 | M | 4 18 23 | 5 40 26 | 21 16 | 19 2 | 4 23 | 21 43 | 17 10 |
| 28 | Tu | 4 22 20 | 6 37 59 | 21 26 | 4 6 | 3 32 | 24 27 | 17 9 |
| 29 | W | 4 26 16 | 7 35 31 | 21 36 | 19 16 | 2 25 | 25 26 | 17 8 |
| 30 | Th | 4 30 13 | 8 33 1 | 21 45 | 4 22 | 1 8 | 24 32 | 17 7 |
| 31 | F | 4 34 9 | 9 30 31 | 21 54 | 19 16 | 0 S 12 | 21 52 | 17 5 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 2 N 2 | 19 N 7 | 1 S 7 | 11 N 41 | 2 N 37 | 22 N 48 | 20 w 11 |
| 4 | 1 57 | 18 42 | 1 2 | 12 59 | 2 21 | 22 49 | 20 1 |
| 7 | 1 53 | 18 15 | 0 57 | 14 15 | 1 54 | 22 30 | 19 52 |
| 10 | 1 49 | 17 47 | 0 51 | 15 23 | 1 17 | 21 53 | 19 42 |
| 13 | 1 45 | 17 19 | 0 45 | 16 36 | 0 33 | 20 59 | 19 33 |
| 16 | 1 41 | 16 50 | 0 39 | 17 33 | 0 18 | 19 52 | 19 23 |
| 19 | 1 38 | 16 20 | 0 32 | 18 42 | 1 11 | 18 39 | 19 14 |
| 22 | 1 34 | 15 48 | 0 25 | 19 36 | 2 1 | 17 28 | 19 4 |
| 25 | 1 30 | 15 17 | 0 19 | 20 30 | 2 45 | 16 25 | 18 55 |
| 28 | 1 26 | 14 41 | 0 12 | 21 13 | 3 20 | 15 35 | 18 45 |
| 31 | 1 22 | 14 5 | 0 5 | 21 56 | 3 44 | 15 5 | 18 36 |

| D
M | h
Long. | ♄
Long. | ♂
Long. | ♀
Long. | ♊
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | ° / | ° / | ° / | ° / | ° / | | ☉ | ☿ | ♈ | ♄ | ♊ | ♋ | ♌ |
| 1 | 10 49 | 4 2 | 12 8 | 3 38 | 0 19 | | | Δ | Δ | ♂ | * | | |
| 2 | 10 45 | 3 55 | 12 33 | 4 52 | 0 53 | | | | | | | | |
| 3 | 10 41 | 3 49 | 12 58 | 6 6 | 1 21 | | * | | □ | | | * | |
| 4 | 10 38 | 3 42 | 13 23 | 7 20 | 1 43 | ☉ □ ♂ | | □ | | | | | |
| 5 | 10 34 | 3 36 | 13 49 | 8 34 | 2 0 | | □ | | * | Δ | ♊ | □ | * |
| 6 | 10 30 | 3 29 | 14 14 | 9 48 | 2 12 | | | * | | | | | |
| 7 | 10 27 | 3 22 | 14 40 | 11 1 | 2 19 | | | | | □ | | Δ | □ |
| 8 | 10 24 | 3 15 | 15 6 | 12 15 | 2 21 | | Δ | | | | * | | |
| 9 | 10 21 | 3 8 | 15 33 | 13 29 | 2 18 | | | ♊ | | * | | | Δ |
| 10 | 10 18 | 3 1 | 15 59 | 14 43 | 2 10 | | | ♊ | ♊ | | * | | |
| 11 | 10 15 | 2 54 | 16 26 | 15 57 | 1 58 | | | | | | | | |
| 12 | 10 12 | 2 47 | 16 53 | 17 11 | 1 42 | | | | | | | | |
| 13 | 10 9 | 2 39 | 17 20 | 18 24 | 1 21 | | ♊ | | | | | ♊ | |
| 14 | 10 6 | 2 32 | 17 47 | 19 38 | 0 57 | | | | | ♊ | | | ♊ |
| 15 | 10 4 | 2 24 | 18 15 | 20 52 | 0 30 | | | * | * | | Δ | | |
| 16 | 10 1 | 2 17 | 18 43 | 22 6 | 29 59 | | | | | | | | |
| 17 | 9 59 | 2 9 | 19 11 | 23 20 | 29 27 | | | | □ | | | | |
| 18 | 9 56 | 2 2 | 19 39 | 24 34 | 28 54 | | | □ | | | | Δ | |
| 19 | 9 54 | 1 54 | 20 7 | 25 47 | 28 20 | ♊ * ☿ | Δ | Δ | | * | | | Δ |
| 20 | 9 52 | 1 46 | 20 35 | 27 1 | 27 45 | ☉ ♂ ♋ | | Δ | Δ | | | | |
| 21 | 9 50 | 1 39 | 21 4 | 28 15 | 27 11 | ♀ ♂ ♋ | □ | | | | ♊ | □ | □ |
| 22 | 9 48 | 1 31 | 21 33 | 29 29 | 26 38 | | | | | | | | |
| 23 | 9 46 | 1 24 | 22 2 | 0 43 | 26 6 | ☉ ♂ ♋ | | | | | | | * |
| 24 | 9 44 | 1 16 | 22 31 | 1 57 | 25 36 | ♀ ♂ ♋ | * | | ♊ | Δ | | * | |
| 25 | 9 42 | 1 8 | 23 0 | 3 10 | 25 9 | | | ♊ | | | Δ | | |
| 26 | 9 40 | 1 0 | 23 30 | 4 24 | 24 45 | | | | | | | | |
| 27 | 9 39 | 0 53 | 24 0 | 5 38 | 24 24 | ☉ ♂ ♋ | | | | | | □ | ♊ |
| 28 | 9 37 | 0 45 | 24 30 | 6 52 | 24 6 | ♀ ♂ ♋ | ♊ | | Δ | | ♊ | | ♊ |
| 29 | 9 36 | 0 38 | 25 0 | 8 5 | 23 52 | | | Δ | | | * | | |
| 30 | 9 34 | 0 30 | 25 30 | 9 19 | 23 42 | | | | □ | | | | |
| 31 | 9 33 | 0 23 | 26 0 | 10 33 | 23 37 | | | □ | | | | | * |

JULY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 37 | 6 S 3 | 2 N 30 | 1 S 34 | 0 N 52 | 18 S 43 |
| 4 | 15 | 45 | 0 37 | 6 4 | 2 30 | 1 37 | 0 51 | 18 41 |
| 7 | 15 | 45 | 0 37 | 6 5 | 2 29 | 1 41 | 0 50 | 18 40 |
| 10 | 15 | 46 | 0 37 | 6 6 | 2 28 | 1 44 | 0 50 | 18 39 |
| 18 | 15 | 46 | 0 37 | 6 7 | 2 27 | 1 48 | 0 49 | 18 38 |
| 16 | 15 | 46 | 0 37 | 6 8 | 2 27 | 1 52 | 0 49 | 18 37 |
| 19 | 15 | 46 | 0 37 | 6 9 | 2 26 | 1 57 | 0 48 | 18 37 |
| 22 | 15 | 46 | 0 36 | 6 10 | 2 25 | 2 2 | 0 47 | 18 37 |
| 25 | 15 | 47 | 0 36 | 6 11 | 2 25 | 2 7 | 0 46 | 18 38 |
| 28 | 15 | 47 | 0 36 | 6 13 | 2 24 | 2 12 | 0 46 | 18 39 |
| 31 | 15 | 47 | 0 36 | 6 15 | 2 24 | 2 18 | 0 45 | 18 40 |

| D
M | D
W | Siderea ^l
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | M | 6 36 22 | 9 56 30 | 23 N 9 | 11 11 6 | 4 S 19 | 3 N 24 | 16 50 |
| 2 | Tu | 6 40 19 | 10 3 43 | 23 5 | 24 39 | 4 55 | 2 S 23 | 16 51 |
| 3 | W | 6 44 15 | 11 0 55 | 23 0 | 7 47 | 5 14 | 7 53 | 16 51 |
| 4 | Th | 6 48 12 | 11 58 7 | 22 55 | 20 32 | 5 17 | 12 55 | 16 52 |
| 5 | F | 6 52 9 | 12 55 19 | 22 50 | 2 59 | 5 5 | 17 17 | 16 53 |
| 6 | S | 6 56 5 | 13 52 31 | 22 44 | 15 11 | 4 39 | 20 51 | 16 53 |
| 7 | S | 7 0 2 | 14 49 42 | 22 38 | 27 12 | 4 1 | 23 29 | 16 54 |
| 8 | M | 7 3 58 | 15 46 54 | 22 32 | 9 5 | 3 14 | 25 2 | 16 54 |
| 9 | Tu | 7 7 55 | 16 44 5 | 22 25 | 20 55 | 2 18 | 25 27 | 16 55 |
| 10 | W | 7 11 51 | 17 41 17 | 22 18 | 2 43 | 1 16 | 24 42 | 16 56 |
| 11 | Th | 7 15 48 | 18 38 28 | 22 10 | 14 32 | 0 11 | 22 51 | 16 57 |
| 12 | F | 7 19 45 | 19 35 40 | 22 2 | 26 25 | 0 N 55 | 20 0 | 16 58 |
| 13 | S | 7 23 41 | 20 32 53 | 21 53 | 8 25 | 1 59 | 16 16 | 16 59 |
| 14 | S | 7 27 37 | 21 30 5 | 21 45 | 20 32 | 2 58 | 11 51 | 17 0 |
| 15 | M | 7 31 34 | 22 27 19 | 21 35 | 2 49 | 3 50 | 6 54 | 17 1 |
| 16 | Tu | 7 35 30 | 23 24 33 | 21 26 | 15 19 | 4 32 | 1 37 | 17 2 |
| 17 | W | 7 39 28 | 24 21 47 | 21 16 | 28 4 | 5 1 | 3 N 50 | 17 3 |
| 18 | Th | 7 43 23 | 25 19 3 | 21 6 | 11 7 | 5 16 | 9 14 | 17 4 |
| 19 | F | 7 47 20 | 26 16 19 | 20 55 | 24 28 | 5 14 | 14 21 | 17 5 |
| 20 | S | 7 51 17 | 27 13 36 | 20 44 | 8 11 | 4 55 | 18 53 | 17 6 |
| 21 | S | 7 55 13 | 28 10 54 | 20 33 | 22 15 | 4 18 | 22 30 | 17 8 |
| 22 | M | 7 59 10 | 29 8 13 | 20 21 | 6 39 | 3 24 | 24 47 | 17 9 |
| 23 | Tu | 8 3 7 | 0 5 33 | 20 9 | 21 22 | 2 15 | 25 26 | 17 11 |
| 24 | W | 8 7 3 | 1 2 54 | 19 57 | 6 16 | 0 57 | 24 15 | 17 12 |
| 25 | Th | 8 11 0 | 2 0 15 | 19 44 | 21 17 | 0 S 26 | 21 21 | 17 13 |
| 26 | F | 8 14 56 | 2 57 38 | 19 31 | 6 15 | 1 47 | 17 0 | 17 14 |
| 27 | S | 8 18 53 | 3 55 1 | 19 18 | 21 2 | 3 0 | 11 40 | 17 16 |
| 28 | S | 8 22 49 | 4 52 25 | 19 4 | 5 30 | 3 59 | 5 48 | 17 17 |
| 29 | M | 8 26 46 | 5 49 49 | 18 50 | 19 35 | 4 42 | 0 S 12 | 17 19 |
| 30 | Tu | 8 30 42 | 6 47 14 | 18 36 | 3 15 | 5 7 | 6 0 | 17 21 |
| 31 | W | 8 34 39 | 7 44 40 | 18 21 | 16 27 | 5 16 | 11 20 | 17 23 |



AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 86 | 6 S 18 | 2 N 23 | 2 S 20 | 0 N 45 | 18 S 41 |
| 4 | 15 | 47 | 0 86 | 6 21 | 2 23 | 2 26 | 0 44 | 18 43 |
| 7 | 15 | 48 | 0 86 | 6 24 | 2 22 | 2 33 | 0 43 | 18 45 |
| 10 | 15 | 48 | 0 86 | 6 26 | 2 22 | 2 40 | 0 43 | 18 48 |
| 13 | 15 | 49 | 0 86 | 6 28 | 2 21 | 2 46 | 0 42 | 18 51 |
| 16 | 15 | 49 | 0 86 | 6 31 | 2 21 | 2 53 | 0 41 | 18 54 |
| 19 | 15 | 50 | 0 86 | 6 34 | 2 20 | 3 0 | 0 40 | 18 57 |
| 22 | 15 | 50 | 0 85 | 6 36 | 2 20 | 3 7 | 0 40 | 19 1 |
| 25 | 15 | 51 | 0 85 | 6 39 | 2 19 | 3 14 | 0 39 | 19 5 |
| 28 | 15 | 51 | 0 85 | 6 42 | 2 19 | 3 21 | 0 39 | 19 9 |
| 31 | 15 | 52 | 0 85 | 6 46 | 2 19 | 3 29 | 0 39 | 19 14 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | Th | 8 38 36 | 8 2 42 | 6 18 N 6 | 29 16 | 5 S 8 | 16 S 1 | 17 26 |
| 2 | F | 8 42 32 | 9 39 33 | 17 51 | 11 43 | 4 45 | 19 53 | 17 27 |
| 3 | S | 8 46 29 | 10 36 1 | 17 36 | 23 54 | 4 10 | 22 48 | 17 29 |
| 4 | S | 8 50 26 | 11 34 29 | 17 20 | 5 52 | 3 25 | 24 40 | 17 31 |
| 5 | M | 8 54 22 | 12 31 58 | 17 4 | 17 43 | 2 32 | 25 25 | 17 33 |
| 6 | Tu | 8 58 18 | 13 29 28 | 16 47 | 29 31 | 1 32 | 25 0 | 17 35 |
| 7 | W | 9 2 15 | 14 26 59 | 16 31 | 11 20 | 0 28 | 23 27 | 17 37 |
| 8 | Th | 9 6 11 | 15 24 30 | 16 14 | 23 18 | 0 N 37 | 20 51 | 17 40 |
| 9 | F | 9 10 8 | 16 22 3 | 15 57 | 5 14 | 1 41 | 17 21 | 17 42 |
| 10 | S | 9 14 4 | 17 19 37 | 15 39 | 17 24 | 2 42 | 18 4 | 17 45 |
| 11 | S | 9 18 1 | 18 17 12 | 15 22 | 29 45 | 3 35 | 8 18 | 17 47 |
| 12 | M | 9 21 58 | 19 14 48 | 15 4 | 12 19 | 4 19 | 2 57 | 17 50 |
| 13 | Tu | 9 25 54 | 20 12 25 | 14 46 | 25 6 | 4 51 | 2 N 30 | 17 52 |
| 14 | W | 9 29 50 | 21 10 4 | 14 27 | 8 5 | 5 8 | 7 56 | 17 55 |
| 15 | Th | 9 33 48 | 22 7 45 | 14 9 | 21 19 | 5 10 | 18 6 | 17 58 |
| 16 | F | 9 37 44 | 23 5 27 | 13 50 | 4 46 | 4 55 | 17 45 | 18 1 |
| 17 | S | 9 41 40 | 24 3 11 | 13 31 | 18 28 | 4 23 | 21 33 | 18 3 |
| 18 | S | 9 45 37 | 25 0 56 | 13 12 | 2 24 | 3 35 | 24 10 | 18 6 |
| 19 | M | 9 49 34 | 25 58 44 | 12 52 | 16 34 | 2 33 | 25 19 | 18 8 |
| 20 | Tu | 9 53 31 | 26 56 38 | 12 33 | 0 57 | 1 20 | 24 48 | 18 10 |
| 21 | W | 9 57 27 | 27 54 32 | 12 13 | 15 30 | 0 2 | 22 36 | 18 12 |
| 22 | Th | 10 1 23 | 28 52 16 | 11 53 | 0 8 | 1 S 17 | 18 54 | 18 14 |
| 23 | F | 10 5 20 | 29 50 10 | 11 32 | 14 47 | 2 30 | 14 1 | 18 17 |
| 24 | S | 10 9 17 | 0 48 5 | 11 12 | 29 20 | 3 33 | 8 23 | 18 20 |
| 25 | S | 10 13 13 | 1 46 2 | 10 51 | 13 40 | 4 22 | 2 24 | 18 23 |
| 26 | M | 10 17 10 | 2 44 1 | 10 31 | 27 41 | 4 53 | 3 S 34 | 18 26 |
| 27 | Tu | 10 21 6 | 3 42 1 | 10 10 | 11 20 | 5 7 | 9 12 | 18 29 |
| 28 | W | 10 25 3 | 4 40 3 | 9 49 | 24 34 | 5 4 | 14 14 | 18 32 |
| 29 | Th | 10 28 59 | 5 38 6 | 9 27 | 7 24 | 4 46 | 18 29 | 18 35 |
| 30 | F | 10 32 56 | 6 36 10 | 9 6 | 10 52 | 4 14 | 21 48 | 18 37 |
| 31 | S | 10 36 52 | 7 34 16 | 8 44 | 2 3 | 3 31 | 24 2 | 18 40 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 25 | 0 S 5 | 1 N 30 | 14 N 2 | 1 N 18 | 18 N 53 | 15 w 19 |
| 4 | 0 22 | 0 52 | 1 29 | 13 49 | 0 54 | 11 50 | 15 9 |
| 7 | 0 20 | 1 39 | 1 28 | 11 24 | 0 32 | 9 47 | 15 0 |
| 10 | 0 18 | 2 26 | 1 26 | 9 59 | 0 8 | 7 43 | 14 50 |
| 13 | 0 16 | 3 12 | 1 24 | 8 35 | 0 S 19 | 5 41 | 14 41 |
| 16 | 0 14 | 3 59 | 1 21 | 7 5 | | | 14 31 |
| 19 | 0 11 | 4 46 | 1 17 | 6 38 | | | 14 22 |
| 22 | 0 9 | 5 32 | 1 12 | 4 6 | | | 14 12 |
| 25 | 0 7 | 6 20 | 1 7 | 2 35 | | | 14 3 |
| 28 | 0 5 | 7 7 | 1 1 | 1 3 | | | 13 58 |
| 31 | 0 2 | 7 56 | 0 55 | 0 S 30 | | | 13 44 |

| D
M | h | | z | | s | | q | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|--------|--------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 11 27 | 26 34 | 1 11 | 26 42 | 26 23 | | | | | | | | | * | ■ |
| 2 | 11 31 | 26 35 | 1 48 | 27 56 | 28 6 | | | | ☿ ☉ ♀ | ☐ | | | | | |
| 3 | 11 36 | 26 37 | 2 25 | 29 9 | 29 46 | | | | | | | ♂ | | * | ☐ |
| 4 | 11 41 | 26 39 | 3 2 | 0 w 23 | 1 w 22 | | | | ☉ * h | Δ | * | * | * | ☐ | ☐ |
| 5 | 11 46 | 26 41 | 3 40 | 1 36 | 2 57 | | | | | Δ | * | | | | |
| 6 | 11 51 | 26 43 | 4 17 | 2 50 | 4 32 | | | | | | | | | ☐ | Δ |
| 7 | 11 56 | 26 45 | 4 55 | 4 3 | 6 6 | | | | | | | ☐ | | | Δ |
| 8 | 12 1 | 26 47 | 5 32 | 5 17 | 7 38 | | | | | | ☐ | | * | | |
| 9 | 12 6 | 26 50 | 6 10 | 6 30 | 9 8 | | | | | | | | | Δ | |
| 10 | 12 11 | 26 53 | 6 47 | 7 44 | 10 35 | | | | ☉ * h | ☿ | Δ | Δ | | | |
| 11 | 12 16 | 26 56 | 7 25 | 8 57 | 12 1 | | | | | | | | ☐ | | |
| 12 | 12 21 | 26 59 | 8 3 | 10 11 | 13 28 | | | | | | | | | ☿ | ☿ |
| 13 | 12 27 | 27 8 | 8 41 | 11 24 | 14 50 | | | | | | | | Δ | | |
| 14 | 12 32 | 27 7 | 9 19 | 12 37 | 16 12 | | | | | | | ☿ | | ☿ | |
| 15 | 12 38 | 27 11 | 9 57 | 13 51 | 17 32 | | | | | Δ | ☿ | | | | |
| 16 | 12 43 | 27 15 | 10 35 | 15 4 | 18 49 | | | | | | | | | | |
| 17 | 12 49 | 27 19 | 11 13 | 16 17 | 20 5 | | | | | ☐ | | | | Δ | Δ |
| 18 | 12 54 | 27 23 | 11 51 | 17 31 | 21 19 | | | | | | | | ☿ | | |
| 19 | 13 0 | 27 27 | 12 30 | 18 44 | 22 32 | | | | | Δ | Δ | | Δ | ☐ | ☐ |
| 20 | 13 5 | 27 32 | 13 8 | 19 58 | 23 43 | | | | ☿ ☉ h | * | | | | | |
| 21 | 13 11 | 27 37 | | | | | | | | | | ☐ | | * | |
| 22 | 13 16 | 27 42 | | | | | | | | | | | Δ | | * |
| 23 | 13 22 | 27 47 | | | | | | | | | | * | | * | |
| 24 | 13 28 | 27 52 | | | | | | | | | | ☐ | | | |
| 25 | 13 34 | 27 58 | | | | | | | | | | | | | |
| 26 | 13 40 | 28 4 | | | | | | | | | | | * | ☿ | ☿ |
| 27 | 13 47 | 28 10 | | | | | | | | | ☿ | | | | |
| 28 | 13 53 | 28 16 | | | | | | | | | | | ☿ | | |
| 29 | 14 0 | 28 22 | | | | | | | | | | | | | |
| 30 | 14 6 | 28 28 | | | | | | | | | | | | | |
| 31 | 14 12 | 28 34 | | | | | | | | | | ☿ | | * | * |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 35 | 6 S 49 | 2 N 18 | 3 S 32 | 0 N 38 | 19 S 16 |
| 4 | 15 | 54 | 0 35 | 6 52 | 2 18 | 3 40 | 0 38 | 19 21 |
| 7 | 15 | 55 | 0 35 | 6 56 | 2 17 | 3 48 | 0 37 | 19 26 |
| 10 | 15 | 56 | 0 35 | 7 1 | 2 17 | 3 56 | 0 36 | 19 32 |
| 13 | 15 | 57 | 0 35 | 7 6 | 2 17 | 4 3 | 0 35 | 19 38 |
| 16 | 15 | 57 | 0 35 | 7 9 | 2 17 | 4 11 | 0 35 | 19 43 |
| 19 | 15 | 58 | 0 35 | 7 12 | 2 16 | 4 20 | 0 34 | 19 49 |
| 22 | 15 | 59 | 0 35 | 7 15 | 2 16 | 4 29 | 0 34 | 19 56 |
| 25 | 16 | 0 | 0 35 | 7 20 | 2 16 | 4 37 | 0 33 | 20 2 |
| 28 | 16 | 0 | 0 35 | 7 25 | 2 16 | 4 45 | 0 33 | 20 8 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|----------------------|-------------|--------------------|-----------|-------------|--------------------|
| | | H. M. s. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 10 40 49 | 8 ^m 32 23 | 8 N 23 | 14 ^f 2 | 2 S 40 | 25 S 9 | 18 ^u 42 |
| 2 | M | 10 44 46 | 9 30 32 | 8 1 | 25 52 | 1 42 | 25 6 | 18 45 |
| 3 | Tu | 10 48 42 | 10 28 42 | 7 39 | 7 ^w 40 | 0 40 | 23 55 | 18 48 |
| 4 | W | 10 52 38 | 11 26 53 | 7 17 | 19 31 | 0 N 23 | 21 39 | 18 51 |
| 5 | Th | 10 56 35 | 12 25 6 | 6 54 | 1 ^m 28 | 1 27 | 18 27 | 18 54 |
| 6 | F | 11 0 32 | 13 23 20 | 6 32 | 13 37 | 2 27 | 14 25 | 18 58 |
| 7 | S | 11 4 28 | 14 21 37 | 6 10 | 25 59 | 3 20 | 9 43 | 19 1 |
| 8 | S | 11 8 24 | 15 19 55 | 5 47 | 8 ^x 36 | 4 6 | 4 33 | 19 5 |
| 9 | M | 11 12 22 | 16 18 14 | 5 25 | 21 30 | 4 39 | 0 N 54 | 19 9 |
| 10 | Tu | 11 16 18 | 17 16 36 | 5 2 | 4 ^r 38 | 4 59 | 6 25 | 19 13 |
| 11 | W | 11 20 14 | 18 14 59 | 4 39 | 18 1 | 5 3 | 11 44 | 19 17 |
| 12 | Th | 11 24 11 | 19 13 25 | 4 16 | 1 ^u 34 | 4 50 | 16 33 | 19 20 |
| 13 | F | 11 28 8 | 20 11 52 | 3 53 | 15 18 | 4 20 | 20 35 | 19 23 |
| 14 | S | 11 32 4 | 21 10 22 | 3 30 | 29 10 | 3 35 | 23 29 | 19 27 |
| 15 | S | 11 36 1 | 22 8 54 | 3 7 | 13 ^u 8 | 2 36 | 24 59 | 19 31 |
| 16 | M | 11 39 58 | 23 7 29 | 2 44 | 27 12 | 1 28 | 24 54 | 19 34 |
| 17 | Tu | 11 43 55 | 24 6 5 | 2 21 | 11 ^u 20 | 0 14 | 23 13 | 19 38 |
| 18 | W | 11 47 51 | 25 4 44 | 1 57 | 25 33 | 1 S 1 | 20 3 | 19 42 |
| 19 | Th | 11 51 47 | 26 3 25 | 1 34 | 9 ^u 47 | 2 13 | 15 41 | 19 45 |
| 20 | F | 11 55 44 | 27 2 8 | 1 11 | 24 0 | 3 16 | 10 27 | 19 49 |
| 21 | S | 11 59 39 | 28 0 54 | 0 47 | 8 ^m 9 | 4 6 | 4 43 | 19 52 |
| 22 | S | 12 3 36 | 28 59 42 | 0 24 | 22 9 | 4 41 | 1 S 11 | 19 55 |
| 23 | M | 12 7 33 | 29 58 31 | 0 1 | 5 ^u 54 | 4 59 | 6 55 | 19 59 |
| 24 | Tu | 12 11 30 | 0 ^u 57 23 | 0 S 23 | 19 22 | 5 0 | 12 12 | 20 3 |
| 25 | W | 12 15 26 | 1 56 16 | 0 46 | 2 ^m 29 | 4 44 | 16 47 | 20 7 |
| 26 | Th | 12 19 23 | 2 55 12 | 1 10 | 15 16 | 4 15 | 20 29 | 20 10 |
| 27 | F | 12 23 19 | 3 54 10 | 1 33 | 27 43 | 3 34 | 23 8 | 20 13 |
| 28 | S | 12 27 16 | 4 53 9 | 1 57 | 9 ^f 53 | 2 44 | 24 39 | 20 17 |
| 29 | S | 12 31 13 | 5 52 11 | 2 20 | 21 51 | 1 47 | 25 0 | 20 21 |
| 30 | M | 12 35 9 | 6 51 13 | 2 43 | 3 ^w 41 | 0 48 | 24 11 | 20 24 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Kila. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 2 | 8 8 9 | 0 N 54 | 1 8 1 | 8 8 17 | 4 8 45 | 13 v 40 |
| 4 | 0 8 1 | 8 55 | 0 47 | 2 34 | 8 40 | 5 38 | 13 80 |
| 7 | 0 8 | 9 41 | 0 40 | 4 8 | 8 58 | 6 7 | 13 21 |
| 10 | 0 5 | 10 26 | 0 32 | 5 40 | 4 7 | 6 9 | 13 11 |
| 13 | 0 7 | 11 12 | 0 24 | 7 11 | 4 6 | 5 35 | 13 2 |
| 16 | 0 9 | 11 56 | 0 16 | 8 40 | 3 48 | 4 26 | 12 52 |
| 19 | 0 11 | 12 40 | 0 7 | 10 8 | 3 15 | 2 42 | 12 48 |
| 22 | 0 13 | 13 26 | 0 8 2 | 11 34 | 2 26 | 0 39 | 12 38 |
| 25 | 0 15 | 14 6 | 0 11 | 12 59 | 1 27 | 1 N 20 | 12 24 |
| 28 | 0 17 | 14 48 | 0 20 | 14 20 | 0 27 | 2 52 | 12 14 |

| D
M | h | | 4 | | 8 | | 12 | | Mutual | | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Aspta. | Aspta. | ☉ | ♂ | ♀ | ♂ | ♀ | ♂ |
| 1 | 14 | 20 | 28 | 41 | 20 | 55 | 4 | 38 | 4 | 22 | | * | * | | | |
| 2 | 14 | 26 | 28 | 47 | 21 | 34 | 5 | 52 | 4 | 57 | ♀♂♀ | | | * | | |
| 3 | 14 | 33 | 28 | 54 | 22 | 14 | 7 | 5 | 5 | 24 | Δ | □ | □ | | □ | □ |
| 4 | 14 | 39 | 29 | 1 | 23 | 53 | 8 | 18 | 5 | 42 | | □ | □ | * | □ | Δ |
| 5 | 14 | 46 | 29 | 5 | 23 | 33 | 9 | 32 | 5 | 56 | | | | * | | Δ |
| 6 | 14 | 52 | 29 | 15 | 24 | 18 | 10 | 45 | 6 | 7 | | Δ | Δ | | Δ | |
| 7 | 14 | 59 | 29 | 22 | 24 | 53 | 11 | 58 | 6 | 16 | | | | □ | Δ | |
| 8 | 15 | 6 | 29 | 29 | 25 | 33 | 13 | 11 | 6 | 16 | | | | | | |
| 9 | 15 | 12 | 29 | 37 | 26 | 13 | 14 | 25 | 6 | 10 | ♂ | | | Δ | | ♂ |
| 10 | 15 | 19 | 29 | 45 | 26 | 53 | 15 | 37 | 5 | 56 | ♀♂♂ | | | Δ | | ♂ |
| 11 | 15 | 25 | 29 | 53 | 27 | 16 | 16 | 50 | 5 | 38 | | ♂ | ♂ | | ♂ | |
| 12 | 15 | 32 | 0 | 1 | | 18 | 8 | 5 | 9 | | | ♂ | ♂ | | ♂ | |
| 13 | 15 | 39 | 0 | 9 | | 19 | 16 | 4 | 35 | ♀♂♂ | Δ | | | ♂ | | |
| 14 | 15 | 46 | 0 | 17 | | 20 | 23 | 3 | 55 | | | | | ♂ | | Δ |
| 15 | 15 | 53 | 0 | 26 | | 21 | 42 | 3 | 9 | | | Δ | Δ | | | |
| 16 | 16 | 0 | 0 | 34 | | 22 | 55 | 2 | 17 | | □ | | | | Δ | Δ |
| 17 | 16 | 7 | 0 | 43 | | 24 | 8 | 1 | 31 | | | | □ | | Δ | □ |
| 18 | 16 | 14 | 0 | 52 | | 25 | 21 | 0 | 21 | ♀*♂ | * | □ | * | Δ | □ | * |
| 19 | 16 | 21 | 1 | 1 | | 26 | 34 | 29 | 16 | | | * | * | | | |
| 20 | 16 | 28 | 1 | 10 | | 27 | 47 | 28 | 11 | ☉♂♀ | * | | | | * | |
| 21 | 16 | 35 | 1 | 19 | 4 | 17 | 29 | 0 | 27 | 6 | | | | □ | * | |
| 22 | 16 | 42 | 1 | 28 | 4 | 58 | 0 | 13 | 26 | 2 | | | | | | ♂ |
| 23 | 16 | 49 | 1 | 37 | 5 | 39 | 1 | 26 | 25 | 2 | ♂ | | | * | | |
| 24 | 16 | 56 | 1 | 46 | 6 | 20 | 2 | 39 | 24 | 8 | | ♂ | ♂ | | | |
| 25 | 17 | 3 | 1 | 55 | 7 | 1 | 8 | 51 | 23 | 19 | ☉*♂ | | | ♂ | ♂ | |
| 26 | 17 | 10 | 2 | 6 | 7 | 43 | 5 | 4 | 22 | 39 | | | | | | |
| 27 | 17 | 17 | 2 | 16 | 8 | 23 | 6 | 17 | 21 | 6 | | | | ♂ | | * |
| 28 | 17 | 24 | 2 | 25 | 9 | 4 | 7 | 30 | 21 | 45 | * | | | | | |
| 29 | 17 | 31 | 2 | 36 | 9 | 46 | 8 | 42 | 21 | D 32 | | * | * | | | □ |
| 30 | 17 | 38 | 2 | 46 | 10 | 27 | 9 | 55 | 21 | 32 | □ | | | | | |

1. The first part of the document is a list of names and dates.

NOVEMBER XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | " | " | " | " | " | " | " | " |
| 1 | 16 | 10 | 0 N 34 | 8 S 12 | 2 N 17 | 6 S 18 | 0 N 28 | 21 S 2 |
| 4 | 16 | 10 | 0 34 | 8 16 | 2 17 | 6 26 | 0 28 | 21 2 |
| 7 | 16 | 11 | 0 34 | 8 20 | 2 17 | 6 33 | 0 27 | 21 3 |
| 10 | 16 | 12 | 0 34 | 8 25 | 2 17 | 6 41 | 0 27 | 21 3 |
| 13 | 16 | 12 | 0 34 | 8 29 | 2 18 | 6 48 | 0 27 | 21 4 |
| 16 | 16 | 13 | 0 34 | 8 32 | 2 18 | 6 55 | 0 27 | 21 5 |
| 19 | 16 | 14 | 0 34 | 8 35 | 2 18 | 7 1 | 0 26 | 21 5 |
| 22 | 16 | 14 | 0 35 | 8 38 | 2 18 | 7 8 | 0 26 | 22 |
| 25 | 16 | 15 | 0 35 | 8 42 | 2 19 | 7 15 | 0 25 | 22 |
| 28 | 16 | 15 | 0 35 | 8 46 | 2 19 | 7 22 | 0 25 | 22 1 |

| D
M | D
W | Sidereal
Time. | | | ☉ | | ☉ | | ☽ | | ♂ | |
|--------|--------|-------------------|----|----|----------|---------|-------|--------|---------|-------|---|---|
| | | H. | M. | S. | Long. | Declin. | Long. | Lat. | Declin. | Long. | | |
| | | " | " | " | " | " | " | " | " | " | " | " |
| 1 | F | 14 | 41 | 16 | 8 38 34 | 14 S 24 | 29 18 | 3 N 54 | 6 S 4 | 22 24 | | |
| 2 | S | 14 | 45 | 11 | 9 38 42 | 14 43 | 11 50 | 4 31 | 2 57 | 22 29 | | |
| 3 | S | 14 | 49 | 8 | 10 38 52 | 15 24 | 45 | 4 56 | 2 N 26 | 22 32 | | |
| 4 | M | 14 | 53 | 4 | 11 39 4 | 15 21 | 8 5 | 5 5 | 7 59 | 22 35 | | |
| 5 | Tu | 14 | 57 | 1 | 12 39 17 | 15 39 | 21 49 | 4 58 | 18 7 | 22 38 | | |
| 6 | W | 15 | 0 | 58 | 13 39 32 | 15 57 | 5 55 | 4 38 | 17 48 | 22 42 | | |
| 7 | Th | 15 | 4 | 54 | 14 39 49 | 16 15 | 20 19 | 3 49 | 21 81 | 22 46 | | |
| 8 | F | 15 | 8 | 51 | 15 40 7 | 16 38 | 4 54 | 2 51 | 23 56 | 22 50 | | |
| 9 | S | 15 | 12 | 48 | 16 40 27 | 16 50 | 19 34 | 1 40 | 24 43 | 22 53 | | |
| 10 | S | 15 | 16 | 46 | 17 40 50 | 17 7 | 4 51 | 0 23 | 23 47 | 22 57 | | |
| 11 | M | 15 | 20 | 41 | 18 41 14 | 17 4 | 18 40 | 0 55 | 21 15 | 23 | | |
| 12 | Tu | 15 | 24 | 37 | 19 41 40 | 17 1 | 2 59 | 2 8 | 17 26 | 23 | | |
| 13 | W | 15 | 28 | 34 | 20 42 8 | 17 7 | 17 4 | 3 13 | 12 40 | 23 | | |
| 14 | Th | 15 | 32 | 30 | 21 42 38 | 17 3 | 0 55 | 4 5 | 7 31 | 23 | | |
| 15 | F | 15 | 36 | 27 | 22 43 10 | 17 8 | 14 33 | 4 48 | 1 45 | 23 | | |
| 16 | S | 15 | 40 | 24 | 23 43 48 | 18 43 | 27 57 | 6 4 | 3 50 | 23 | | |
| 17 | S | 15 | 44 | 20 | 24 44 19 | 18 56 | 11 8 | 5 9 | 9 8 | 23 | | |
| 18 | M | 15 | 48 | 17 | 25 44 57 | 19 13 | 24 7 | 4 57 | 13 58 | 23 | | |
| 19 | Tu | 15 | 52 | 13 | 26 45 36 | 19 27 | 6 53 | 4 31 | 18 5 | 23 | | |
| 20 | W | 15 | 56 | 10 | 27 46 16 | 19 41 | 19 25 | 3 53 | 21 20 | 23 | | |
| 21 | Th | 16 | 0 | 6 | 28 | | 1 48 | 3 32 | 23 32 | 23 | | |
| 22 | F | 16 | 4 | 3 | 29 | | 18 58 | 2 6 | 24 35 | 23 | | |
| 23 | S | 16 | 8 | 0 | 30 | | 25 58 | 1 42 | 24 28 | 23 | | |
| 24 | S | 16 | 11 | 56 | 31 | | 7 50 | 0 N 1 | 23 13 | 23 | | |
| 25 | M | 16 | 15 | 52 | 32 | | 19 38 | 1 52 | 20 57 | 23 | | |
| 26 | Tu | 16 | 19 | 49 | 33 | 50 | 50 20 | 2 6 | 17 49 | 23 | | |
| 27 | W | 16 | 23 | 46 | 34 | 51 | 40 21 | 3 2 | 13 57 | 23 | | |
| 28 | Th | 16 | 27 | 42 | 35 | 52 | 30 21 | 3 51 | 9 31 | 23 | | |
| 29 | F | 16 | 31 | 38 | 36 | 53 | 22 21 | 4 31 | 4 37 | 24 | | |
| 30 | S | 16 | 35 | 35 | 37 | 54 | 14 21 | 4 59 | 0 N 33 | 24 | | |

| 1865.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | 23 | |
|--------------------|--------|-----------------------------------|--------|---------|----------|---------|-----------------|---|--|--|--|----|--|
| NOVEMBER XXX DAYS. | | | | | | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 0 S 37 | 21 S 24 | 1 S 59 | 24 S 57 | 0 N 40 | 12 S 44 | 10 w 27 | | | | | | |
| 4 | 0 39 | 21 49 | 2 5 | 25 17 | 0 19 | 14 39 | 10 17 | | | | | | |
| 7 | 0 40 | 22 14 | 2 12 | 25 35 | 0 S 1 | 16 26 | 10 8 | | | | | | |
| 10 | 0 42 | 22 36 | 2 16 | 25 42 | 0 21 | 18 5 | 9 58 | | | | | | |
| 13 | 0 43 | 22 57 | 2 22 | 25 48 | 0 40 | 19 37 | 9 49 | | | | | | |
| 16 | 0 44 | 23 14 | 2 25 | 25 48 | 0 59 | 21 1 | 9 39 | | | | | | |
| 19 | 0 46 | 23 32 | 2 28 | 25 35 | 1 16 | 22 14 | 9 30 | | | | | | |
| 22 | 0 47 | 23 45 | 2 29 | 25 15 | 1 33 | 23 19 | 9 20 | | | | | | |
| 25 | 0 48 | 23 57 | 2 31 | 24 55 | 1 47 | 24 12 | 9 10 | | | | | | |
| 28 | 0 49 | 24 9 | 2 31 | 24 23 | 1 59 | 24 54 | 9 1 | | | | | | |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|--------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | ☉ | | ☿ | ♈ | ♉ | ♊ | ♋ | |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 21 32 | 8 52 | 3 18 | 8 26 | 5 28 | | | | | | | | |
| 2 | 21 39 | 9 4 | 3 52 | 19 38 | 7 6 | | | Δ | | | □ | □ | Δ |
| 3 | 21 46 | 9 17 | 4 35 | 20 49 | 8 44 | ♀ * h | | | | | | □ | |
| 4 | 21 53 | 9 29 | 5 19 | 22 1 | 10 21 | ♀ * h | | | | | Δ | Δ | |
| 5 | 22 0 | 9 42 | 6 2 | 23 12 | 11 59 | | | | ♊ | ♊ | | | Δ |
| 6 | 22 7 | 9 55 | 6 46 | 24 23 | 13 36 | ☉ ☉ ♉ | | | | | | | |
| 7 | 22 14 | 10 8 | 7 30 | 25 34 | 15 12 | | | ♊ | | | | | ♊ |
| 8 | 22 21 | 10 21 | 8 14 | 26 45 | 16 48 | | | | | | ♊ | ♊ | |
| 9 | 22 28 | 10 34 | 8 58 | 27 56 | 18 24 | | | | Δ | Δ | | | |
| 10 | 22 35 | 10 47 | 9 42 | 29 7 | 19 59 | | | | | | | | ♊ |
| 11 | 22 42 | 11 0 | 10 26 | 0 w 18 | 21 34 | | | Δ | □ | □ | | | Δ |
| 12 | 22 49 | 11 13 | 11 10 | 1 29 | 23 9 | ♊ ☉ ♈ | | | | | | | |
| 13 | 22 55 | 11 26 | 11 55 | 2 40 | 24 43 | | | □ | * | | Δ | Δ | |
| 14 | 23 2 | 11 39 | 12 39 | 3 50 | 26 17 | | | | | * | | | Δ |
| 15 | 23 9 | 11 52 | 13 24 | 5 1 | 27 51 | | | | | | □ | □ | |
| 16 | 23 15 | 12 5 | 14 8 | 6 11 | 29 25 | | | * | | | | | * |
| 17 | 23 22 | 12 18 | 14 53 | 7 22 | 0 59 | h ☉ h | | | | | * | * | □ |
| 18 | 23 29 | 12 31 | 15 37 | 8 32 | 2 32 | | | | ☉ | ☉ | | | * |
| 19 | 23 35 | 12 45 | 16 22 | 9 42 | 4 5 | | | | | | | | * |
| 20 | 23 42 | 12 58 | 17 6 | 10 53 | 5 38 | | | | | | | | |
| 21 | 23 48 | 13 12 | 17 51 | 12 3 | 7 11 | | | ☉ | | | | | |
| 22 | 23 55 | 13 25 | 18 36 | 13 13 | 8 44 | | | | | | ☉ | ☉ | ☉ |
| 23 | 24 1 | 13 39 | 19 21 | 14 23 | 10 17 | | | | * | * | | | |
| 24 | 24 8 | 13 52 | 20 6 | 15 33 | 11 49 | | | | | | | | |
| 25 | 24 14 | 14 6 | 20 51 | 16 43 | 13 21 | | | | □ | □ | | | ☉ |
| 26 | 24 20 | 14 19 | 21 36 | 17 53 | 14 53 | | | * | | | | | |
| 27 | 24 26 | 14 33 | 22 21 | 19 2 | 16 25 | | | | | | * | | * |
| 28 | 24 32 | 14 46 | 23 6 | 20 12 | 17 56 | | | | Δ | Δ | | * | |
| 29 | 24 38 | 15 0 | 23 51 | 21 21 | 19 28 | ♊ * h | | □ | | | | | |
| 30 | 24 44 | 15 13 | 24 36 | 22 31 | 20 59 | ♊ * h | | | | | □ | □ | * |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 35 | 8 S 49 | 2 N 20 | 7 S 28 | 0 N 25 | 22 S 1 |
| 4 | 16 | 15 | 0 35 | 8 52 | 2 20 | 7 33 | 0 25 | 22 2 |
| 7 | 16 | 16 | 0 35 | 8 56 | 2 21 | 7 39 | 0 24 | 22 2 |
| 10 | 16 | 16 | 0 35 | 8 59 | 2 21 | 7 45 | 0 24 | 22 2 |
| 13 | 16 | 16 | 0 35 | 9 2 | 2 22 | 7 50 | 0 24 | 22 3 |
| 16 | 16 | 16 | 0 35 | 9 3 | 2 23 | 7 55 | 0 24 | 22 3 |
| 19 | 16 | 17 | 0 35 | 9 5 | 2 24 | 7 59 | 0 23 | 22 4 |
| 22 | 16 | 17 | 0 35 | 9 7 | 2 24 | 8 3 | 0 23 | 22 4 |
| 25 | 16 | 17 | 0 35 | 9 9 | 2 25 | 8 7 | 0 23 | 22 4 |
| 28 | 16 | 17 | 0 35 | 9 11 | 2 25 | 8 11 | 0 23 | 22 5 |
| 31 | 16 | 17 | 0 35 | 9 12 | 2 26 | 8 14 | 0 23 | 22 5 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 16 39 33 | 8 55 7 | 21 S 49 | 2 r 41 | 5 N 13 | 5 N 51 | 24 4 |
| 2 | M | 16 43 30 | 9 56 1 | 21 58 | 15 58 | 5 11 11 | 4 | 24 8 |
| 3 | Tu | 16 47 27 | 10 56 56 | 22 7 | 29 42 | 4 51 15 | 55 | 24 10 |
| 4 | W | 16 51 24 | 11 57 52 | 22 15 | 13 54 | 4 14 20 | 4 | 24 13 |
| 5 | Th | 16 55 21 | 12 58 48 | 22 23 | 28 29 | 3 19 23 | 4 | 24 16 |
| 6 | F | 16 59 18 | 13 59 46 | 22 30 | 13 21 | 2 9 24 | 34 | 24 19 |
| 7 | S | 17 3 14 | 15 0 44 | 22 37 | 28 23 | 0 50 24 | 17 | 24 22 |
| 8 | S | 17 7 11 | 16 1 44 | 22 44 | 13 25 | 0 S 33 | 22 15 | 24 25 |
| 9 | M | 17 11 8 | 17 2 45 | 22 50 | 28 19 | 1 53 18 | 41 | 24 27 |
| 10 | Tu | 17 15 4 | 18 3 46 | 22 56 | 12 59 | 3 4 14 | 0 | 24 30 |
| 11 | W | 17 19 1 | 19 4 49 | 23 1 | 27 20 | 4 2 8 | 37 | 24 32 |
| 12 | Th | 17 22 58 | 20 5 52 | 23 6 | 11 20 | 4 44 2 | 57 | 24 34 |
| 13 | F | 17 26 54 | 21 6 57 | 23 10 | 24 58 | 5 9 2 S | 43 | 24 36 |
| 14 | S | 17 30 51 | 22 8 2 | 23 14 | 8 15 | 5 17 8 | 8 | 24 38 |
| 15 | S | 17 34 47 | 23 9 9 | 23 17 | 21 14 | 5 8 13 | 2 | 24 40 |
| 16 | M | 17 38 43 | 24 10 17 | 23 20 | 3 m 56 | 4 44 17 | 17 | 24 42 |
| 17 | Tu | 17 42 40 | 25 11 25 | 23 23 | 16 23 | 4 7 20 | 42 | 24 44 |
| 18 | W | 17 46 37 | 26 12 34 | 23 25 | 28 40 | 3 19 23 | 7 | 24 46 |
| 19 | Th | 17 50 33 | 27 13 44 | 23 26 | 10 46 | 2 23 24 | 26 | 24 49 |
| 20 | F | 17 54 30 | 28 14 55 | 23 27 | 22 45 | 1 20 24 | 36 | 24 52 |
| 21 | S | 17 58 27 | 29 16 5 | 23 28 | 4 w 38 | 0 15 23 | 38 | 24 55 |
| 22 | S | 18 2 24 | 0 w 17 | 16 23 | 28 16 27 | 0 N 50 | 21 37 | 24 57 |
| 23 | M | 18 6 19 | 1 18 28 | 23 27 | 28 14 | 1 53 18 | 42 | 24 59 |
| 24 | Tu | 18 10 16 | 2 19 40 | 23 27 | 10 2 | 2 52 14 | 59 | 25 1 |
| 25 | W | 18 14 12 | 3 20 51 | 23 25 | 21 54 | 3 43 10 | 42 | 25 3 |
| 26 | Th | 18 18 8 | 4 22 3 | 23 23 | 3 x 53 | 4 25 5 | 58 | 25 5 |
| 27 | F | 18 22 4 | 5 23 15 | 23 21 | 16 3 | 4 56 0 | 57 | 25 7 |
| 28 | S | 18 26 0 | 6 24 26 | 23 18 | 28 28 | 5 14 4 N | 12 | 25 9 |
| 29 | S | 18 29 57 | 7 25 37 | 23 15 | 11 r 13 | 5 18 9 | 19 | 25 11 |
| 30 | M | 18 33 54 | 8 26 48 | 23 12 | 24 22 | 5 5 14 | 10 | 25 13 |
| 31 | Tu | 18 37 51 | 9 27 59 | 23 8 | 7 56 | 4 34 18 | 29 | 25 15 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 08 51 | 24 8 14 | 23 31 | 23 3 51 | 23 9 | 25 3 24 | 8 w 51 |
| 2 | 0 52 | 24 20 | 2 29 | 23 9 | 2 18 | 25 42 | 8 41 |
| 7 | 0 53 | 24 21 | 2 25 | 22 25 | 2 19 | 25 47 | 8 32 |
| 10 | 0 54 | 24 20 | 2 19 | 21 33 | 2 18 | 25 38 | 8 23 |
| 12 | 0 55 | 24 18 | 2 16 | 20 39 | 2 11 | 25 16 | 8 18 |
| 16 | 0 56 | 24 13 | 2 6 | 19 38 | 1 57 | 24 41 | 8 8 |
| 19 | 0 57 | 24 6 | 2 0 | 18 36 | 1 36 | 23 57 | 7 54 |
| 22 | 0 58 | 23 57 | 1 48 | 17 38 | 1 5 | 23 8 | 7 44 |
| 25 | 0 59 | 23 44 | 1 39 | 16 17 | 0 23 | 22 8 | 7 35 |
| 28 | 1 0 | 23 30 | 1 24 | 15 5 | 0 N 28 | 21 17 | 7 26 |
| 31 | 1 1 | 23 12 | 1 8 | 13 52 | 1 26 | 20 35 | 7 16 |

| D
M | h | | M | | J | | S | | V | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 34 50 | 15 27 | 25 22 | 23 w 40 | 22 30 | ♀ ☐ ♈ | | | | | | | | | | | |
| 2 | 34 56 | 15 40 | 26 7 | 24 49 | 24 1 | ♀ ☐ ♈ | Δ | | | | | Δ | | | | | |
| 3 | 35 2 | 16 54 | 26 53 | 25 57 | 25 32 | ♀ * ♈ | | ♂ | ♂ | | | | | ♈ | ☐ | Δ | |
| 4 | 35 8 | 16 7 | 27 38 | 27 6 | 27 2 | ♀ * ♈ | | | | | | | | | | | |
| 5 | 35 14 | 16 21 | 28 24 | 28 14 | 28 31 | ♀ ☐ ♈ | | | | | | | | | | | Δ |
| 6 | 35 20 | 16 34 | 29 9 | 29 23 | 0 w 0 | | | ♂ | | | | ♂ | | | | | |
| 7 | 35 26 | 16 48 | 29 55 | 0 m 31 | 1 29 | | | | Δ | Δ | | | | ♂ | | | ♂ |

Δ

☐

*

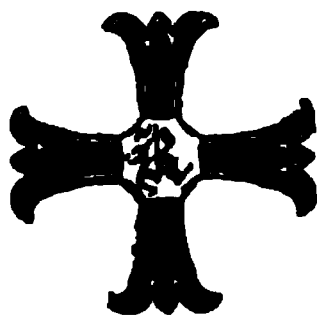
♈

*

☐

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES
For 1806.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

(Alm) 939 t. 160

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1806.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 35 | 9 S 14 | 2 N 26 | 8 S 16 | 0 N 22 | 22 S 53 |
| 4 | 16 | 15 | 0 35 | 9 16 | 2 27 | 8 19 | 0 22 | 22 55 |
| 7 | 16 | 16 | 0 35 | 9 18 | 2 28 | 8 22 | 0 22 | 22 57 |
| 10 | 16 | 16 | 0 36 | 9 19 | 2 28 | 8 24 | 0 22 | 22 59 |
| 13 | 16 | 17 | 0 36 | 9 20 | 2 29 | 8 26 | 0 21 | 23 1 |
| 16 | 16 | 17 | 0 36 | 9 21 | 2 30 | 8 28 | 0 21 | 23 3 |
| 19 | 16 | 17 | 0 36 | 9 22 | 2 31 | 8 29 | 0 21 | 23 4 |
| 22 | 16 | 18 | 0 36 | 9 22 | 2 31 | 8 30 | 0 21 | 23 5 |
| 25 | 16 | 18 | 0 36 | 9 22 | 2 32 | 8 31 | 0 21 | 23 6 |
| 28 | 16 | 18 | 0 36 | 9 22 | 2 32 | 8 31 | 0 21 | 23 6 |
| 31 | 16 | 18 | 0 36 | 9 22 | 2 33 | 8 32 | 0 21 | 23 7 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 18 41 48 | 10 29 | 9 23 S | 3 21 58 | 3 N 47 | 21 N 56 | 25 17 |
| 2 | Th | 18 45 44 | 11 30 20 | 22 58 | 6 27 | 2 44 | 24 6 | 25 19 |
| 3 | F | 18 49 41 | 12 31 29 | 22 52 | 21 18 | 1 29 | 24 39 | 25 20 |
| 4 | S | 18 53 38 | 13 32 39 | 22 46 | 6 25 | 0 6 | 23 24 | 25 22 |
| 5 | S | 18 57 34 | 14 33 49 | 22 40 | 21 40 | 1 S 18 | 20 25 | 25 23 |
| 6 | M | 19 1 31 | 15 34 58 | 22 33 | 6 53 | 2 37 | 16 3 | 25 24 |
| 7 | Tu | 19 5 27 | 16 36 7 | 22 26 | 21 53 | 3 43 | 10 43 | 25 26 |
| 8 | W | 19 9 24 | 17 37 16 | 22 18 | 6 34 | 4 33 | 4 53 | 25 27 |
| 9 | Th | 19 13 21 | 18 38 25 | 22 10 | 20 49 | 5 4 | 1 S 1 | 25 28 |
| 10 | F | 19 17 17 | 19 39 34 | 22 1 | 4 38 | 5 17 | 6 41 | 25 29 |
| 11 | S | 19 21 14 | 20 40 42 | 21 52 | 18 0 | 5 12 | 11 51 | 25 30 |
| 12 | S | 19 25 10 | 21 41 51 | 21 43 | 0 56 | 4 51 | 16 21 | 25 31 |
| 13 | M | 19 29 7 | 22 42 59 | 21 33 | 13 32 | 4 16 | 19 59 | 25 32 |
| 14 | Tu | 19 33 4 | 23 44 8 | 21 23 | 25 50 | 3 31 | 22 39 | 25 33 |
| 15 | W | 19 37 0 | 24 45 16 | 21 12 | 7 56 | 2 36 | 24 14 | 25 34 |
| 16 | Th | 19 40 57 | 25 46 23 | 21 1 | 19 52 | 1 36 | 24 40 | 25 35 |
| 17 | F | 19 44 53 | 26 47 30 | 20 49 | 1 42 | 0 32 | 23 59 | 25 35 |
| 18 | S | 19 48 50 | 27 48 37 | 20 37 | 13 30 | 0 N 33 | 22 14 | 25 36 |
| 19 | S | 19 52 46 | 28 49 43 | 20 25 | 25 17 | 1 37 | 19 31 | 25 36 |
| 20 | M | 19 56 43 | 29 50 48 | 20 12 | 7 7 | 2 37 | 15 59 | 25 37 |
| 21 | Tu | 20 0 39 | 0 51 52 | 19 59 | 19 0 | 3 29 | 11 49 | 25 37 |
| 22 | W | 20 4 35 | 1 52 56 | 19 46 | 0 59 | 4 14 | 7 11 | 25 38 |
| 23 | Th | 20 8 33 | 2 53 58 | 19 32 | 13 5 | 4 47 | 2 14 | 25 38 |
| 24 | F | 20 12 29 | 3 55 0 | 19 18 | 25 22 | 5 7 | 2 N 51 | 25 38 |
| 25 | S | 20 16 25 | 4 56 0 | 19 3 | 7 51 | 5 14 | 7 55 | 25 39 |
| 26 | S | 20 20 22 | 5 56 59 | 18 48 | 20 35 | 5 5 | 12 45 | 25 39 |
| 27 | M | 20 24 19 | 6 57 56 | 18 33 | 3 38 | 4 41 | 17 8 | 25 39 |
| 28 | Tu | 20 28 16 | 7 58 52 | 18 17 | 17 2 | 4 1 | 20 47 | 25 39 |
| 29 | W | 20 32 12 | 8 59 47 | 18 2 | 0 49 | 3 6 | 23 22 | 25 39 |
| 30 | Th | 20 36 9 | 10 0 41 | 17 45 | 15 1 | 1 58 | 24 34 | 25 39 |
| 31 | F | 20 40 5 | 11 1 38 | 17 29 | 29 36 | 0 41 | 24 8 | 25 39 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 1 | 23 8 6 | 18 8 | 18 8 21 | 1 N 48 | 20 8 23 | 7 w 18 |
| 4 | 1 1 | 22 48 | 0 50 | 11 58 | 2 37 | 19 59 | 7 3 |
| 7 | 1 2 | 22 23 | 0 35 | 10 48 | 3 11 | 19 48 | 6 54 |
| 9 | 1 2 | 21 59 | 0 16 | 9 28 | 3 22 | 19 51 | 6 44 |
| 13 | 1 3 | 21 30 | 0 N 3 | 7 59 | 3 16 | 20 6 | 6 35 |
| 16 | 1 3 | 21 0 | 0 25 | 6 44 | 2 55 | 20 26 | 6 25 |
| 19 | 1 4 | 20 29 | 0 48 | 5 16 | 2 27 | 20 52 | 6 16 |
| 22 | 1 4 | 19 56 | 1 14 | 4 0 | 1 57 | 21 17 | 6 6 |
| 25 | 1 4 | 19 20 | 1 39 | 2 35 | 1 26 | 21 39 | 6 57 |
| 28 | 1 4 | 18 40 | 2 9 | 1 20 | 0 55 | 21 56 | 6 47 |
| 31 | 1 4 | 18 8 | 2 42 | 0 5 | 0 26 | 22 8 | 6 38 |

| J
Y | h | | M | | J | | ♀ | | Mutual
Aspects. | Lunar Aspects. | | | | | | |
|--------|-------|-------|--------|---------|---------|-------|-------|-------|--------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 27 21 | 22 26 | 19 w 9 | 27 m 42 | 18 w 57 | ♀ Δ h | | | | | | | | | Δ | □ |
| 2 | 27 25 | 22 39 | 19 55 | 28 42 | 17 49 | ♀ ☿ | | | | | | | | | | |
| 3 | 27 29 | 22 53 | 20 42 | 29 42 | 16 37 | | | | | Δ | Δ | ♈ | | | | |
| 4 | 27 32 | 23 6 | 21 29 | 0 x 42 | 15 22 | | | | | | | | | | Δ | |
| 5 | 27 35 | 23 20 | 22 16 | 1 42 | 14 4 | ☉ ☿ ♀ | | | | ♈ | □ | □ | | | ♈ | ♈ |
| 6 | 27 38 | 23 33 | 23 3 | 2 42 | 12 44 | | | | | | | | | | | |
| 7 | 27 41 | 23 46 | 23 50 | 3 42 | 11 23 | | | | | | * | * | Δ | | | |
| 8 | 27 44 | 23 59 | 24 37 | 4 41 | 10 9 | | | | | | | | | | ♈ | Δ |
| 9 | 27 47 | 24 12 | 25 24 | 5 39 | 9 8 | | | | | Δ | | | □ | Δ | | |
| 10 | 27 50 | 24 25 | 26 11 | 6 37 | 8 5 | | | | | | | | | | | □ |
| 11 | 27 53 | 24 38 | 26 58 | 7 34 | 7 16 | | | | | □ | | | | | | |
| 12 | 27 56 | 24 51 | 27 45 | 8 30 | 6 36 | ♈ □ h | | | | ☿ | ☿ | * | □ | | | * |
| 13 | 27 58 | 25 4 | 28 32 | 9 26 | 6 5 | | | | | * | | | | | * | Δ |
| 14 | 28 1 | 25 17 | 29 19 | 10 21 | 5 44 | | | | | | | | | | * | |
| 15 | 28 3 | 25 30 | 0 m 6 | 11 15 | 5 D 33 | ♈ * h | | | | | | | | | | □ |
| 16 | 28 5 | 25 43 | 53 13 | 8 5 | 31 | ☉ □ h | | | | | * | | | | | |
| 17 | 28 7 | 25 56 | 40 13 | 1 5 | 38 | | | | | | | * | ☿ | | | ☿ |
| 18 | 28 9 | 26 8 | 27 13 | 54 5 | 51 | ☉ □ h | | | | ☿ | □ | | | | * | |
| 19 | 28 11 | 26 20 | 14 14 | 46 6 | 10 | | | | | ☿ | □ | □ | | | ☿ | |
| 20 | 28 13 | 26 33 | 1 16 | 37 6 | 35 | | | | | | | | | | | |
| 21 | 28 15 | 26 45 | 4 48 | 16 27 | 7 7 | | | | | | | | | | | |
| 22 | 28 16 | 26 57 | 5 35 | 17 16 | 7 47 | | | | | | Δ | Δ | * | | | |
| 23 | 28 18 | 27 10 | 6 22 | 18 4 | 8 30 | | | | | | | | | | ☿ | * |
| 24 | 28 19 | 27 22 | 7 9 | 18 52 | 9 16 | | | | | | | | □ | | | |
| 25 | 28 20 | 27 34 | 7 57 | 19 39 | 10 6 | | | | | * | | | | * | | □ |
| 26 | 28 21 | 27 46 | 8 44 | 20 24 | 10 59 | | | | | | ♈ | | | | | |
| 27 | 28 22 | 27 58 | 9 31 | 21 8 | 11 56 | | | | | □ | | ♈ | Δ | □ | | |
| 28 | 28 23 | 28 10 | 10 18 | 21 51 | 12 58 | | | | | | | | | | * | Δ |
| 29 | 28 24 | 28 22 | 11 6 | 22 34 | 14 2 | ♈ * h | | | | | | | | | | |
| 30 | 28 25 | 28 34 | 11 53 | 23 16 | 15 8 | | | | | Δ | | | | Δ | | |
| 31 | 28 26 | 28 46 | 12 40 | 23 57 | 16 15 | | | | | | Δ | Δ | ♈ | | □ | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-----------|---------|---------|---------|----------|---------|
| | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 15 | 0 N 36 | 9 S 22 | 2 N 34 | 8 S 32 | 0 N 20 | 23 S |
| 4 | 16 15 | 0 36 | 9 22 | 2 35 | 8 31 | 0 20 | 23 |
| 7 | 16 14 | 0 36 | 9 21 | 2 36 | 8 31 | 0 20 | 23 |
| 10 | 16 14 | 0 36 | 9 20 | 2 36 | 8 29 | 0 20 | 23 |
| 13 | 16 13 | 0 36 | 9 19 | 2 37 | 8 28 | 0 20 | 23 |
| 16 | 16 13 | 0 36 | 9 19 | 2 38 | 8 26 | 0 20 | 23 |
| 19 | 16 12 | 0 36 | 9 18 | 2 39 | 8 25 | 0 19 | 23 |
| 22 | 16 11 | 0 37 | 9 17 | 2 39 | 8 23 | 0 19 | 23 |
| 25 | 16 10 | 0 37 | 9 16 | 2 40 | 8 20 | 0 19 | 23 |
| 28 | 16 9 | 0 37 | 9 14 | 2 40 | 8 11 | 0 19 | 23 |

| D
M | D
W | Time. | Long. | Declin. | Long. | Lat. | Declin. | Long. |
|--------|--------|----------|-------|---------|-------|--------|---------|----------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 20 44 2 | 12 24 | 17 S 12 | 14 30 | 0 S 41 | 22 N 0 | 25 25 |
| 2 | S | 20 47 58 | 13 8 | 18 16 | 55 29 | 38 2 | 0 18 | 17 25 |
| 3 | M | 20 51 55 | 14 4 | 1 16 | 37 14 | Q 50 | 3 11 | 18 21 25 |
| 4 | Tu | 20 55 51 | 15 4 | 48 16 | 20 29 | 56 4 | 9 7 | 37 25 |
| 5 | W | 20 59 48 | 16 6 | 84 16 | 2 14 | 47 4 | 48 1 | 34 25 |
| 6 | Th | 21 3 45 | 17 6 | 18 15 | 43 29 | 15 5 | 8 4 | 8 25 |
| 7 | F | 21 7 41 | 18 7 | 2 15 | 25 13 | 16 5 | 8 9 | 58 25 |
| 8 | S | 21 11 38 | 19 7 | 44 15 | 6 26 | 47 4 | 52 14 | 51 25 |
| 9 | S | 21 15 34 | 20 8 | 25 14 | 47 9 | m 49 | 4 20 | 18 53 25 |
| 10 | M | 21 19 31 | 21 9 | 5 14 | 28 22 | 27 8 | 36 21 | 53 25 |
| 11 | Tu | 21 23 28 | 22 10 | 14 14 | 8 4 | f 45 | 2 44 | 23 47 25 |
| 12 | W | 21 27 25 | 23 11 | 13 48 | 16 47 | 1 45 | 24 38 | 25 25 |
| 13 | Th | 21 31 22 | 24 12 | 13 58 | 28 39 | 0 43 | 24 10 | 25 25 |
| 14 | F | 21 35 19 | 25 13 | 13 8 | 10 26 | 0 N 21 | 22 48 | 25 25 |
| 15 | S | 21 39 16 | 26 14 | 12 7 | 48 22 | 12 1 | 24 20 | 15 25 |
| 16 | S | 21 43 10 | 27 12 | 40 12 | 27 4 | m 0 | 2 23 | 16 58 25 |
| 17 | M | 21 47 7 | 28 13 | 11 13 | 6 15 | 45 8 | 15 12 | 59 25 |
| 18 | Tu | 21 51 3 | 29 13 | 40 11 | 45 27 | 55 4 | 1 8 | 27 25 |
| 19 | W | 21 55 0 | 30 14 | 8 11 | 24 10 | x 6 | 4 35 | 3 33 25 |
| 20 | Th | 21 59 57 | 31 14 | 34 11 | 3 22 | 26 4 | 57 1 | N 32 25 |
| 21 | | | | | | 56 5 | 5 6 | 38 25 |
| 22 | | | | | | 38 4 | 58 11 | 31 25 |
| 23 | | | | | | 38 4 | 37 15 | 59 25 |
| 24 | | | | | | 38 4 | 0 19 | 46 25 |
| 25 | | | | | | 1 8 | 10 22 | 35 25 |
| 26 | | | | | | 41 2 | 8 24 | 10 25 |
| 27 | | | | | | 38 0 | 57 24 | 18 25 |
| 28 | | | | | | 53 0 | 8 19 | 22 51 25 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 18 5 | 17 8 50 | 2 N47 | 0 N24 | 0 N17 | 22 S 3 | 5 w34 |
| 4 | 1 5 | 17 10 | 3 22 | 1 34 | 0 S10 | 21 59 | 5 24 |
| 7 | 1 5 | 16 25 | 3 50 | 2 43 | 0 35 | 21 43 | 5 15 |
| 10 | 1 5 | 15 40 | 4 27 | 3 44 | 0 57 | 21 17 | 5 5 |
| 13 | 1 5 | 14 54 | 4 48 | 4 44 | 1 16 | 20 39 | 4 56 |
| 16 | 1 5 | 14 6 | 5 37 | 5 58 | 1 33 | 19 50 | 4 46 |
| 19 | 1 4 | 13 17 | 6 8 | 6 17 | 1 47 | 18 49 | 4 37 |
| 22 | 1 4 | 12 27 | 6 44 | 6 47 | 1 57 | 17 35 | 4 27 |
| 25 | 1 4 | 11 37 | 7 14 | 7 13 | 2 5 | 16 10 | 4 18 |
| 28 | 1 4 | 10 47 | 7 44 | 7 20 | 2 9 | 14 33 | 4 8 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutnal
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|----|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 28 26 | 28 7 58 | 13 m28 | 24 * 36 | 17 w25 | | | | | | | | | ♊ |
| 2 | 28 26 | 29 10 | 14 15 25 | 14 18 35 | | | | | ☐ | ☐ | | | ♊ | Δ |
| 3 | 28 26 | 29 21 15 | 3 25 51 | 19 48 | ☉♈♊ | ♊ | | | * | * | Δ | | ♊ | |
| 4 | 28 27 | 29 33 15 | 50 26 26 | 21 4 | | | | | * | * | Δ | | | |
| 5 | 28 27 | 29 44 16 | 38 26 59 | 22 22 | | | | | | | | | | |
| 6 | 28 27 | 29 55 17 | 25 27 30 | 23 41 | | | | | | | | ☐ | | ♊Δ |
| 7 | 28 27 | 0 w 6 | 18 13 27 | 59 25 0 | ♋☐♈ | Δ | | ♈ | ♈ | * | | Δ | | ♊ |
| 8 | 28 27 | 0 17 19 | 0 28 27 | 26 20 | | | | | ♈ | ♈ | * | | | ☐ |
| 9 | 28 27 | 0 28 19 | 48 28 54 | 27 42 | ♋☐♈ | | | | | | | | | |
| 10 | 28 27 | 0 39 20 | 35 29 20 | 29 5 | ♋*♋ | ☐ | | | | | | | ☐ | |
| 11 | 28 26 | 0 50 21 | 22 29 44 | 0 m29 | | | | | | | | | | Δ* |
| 12 | 28 26 | 1 1 22 | 10 0 r 6 | 1 55 | | | | | | | | | | |
| 13 | 28 26 | 1 12 22 | 57 0 25 | 3 22 | | | | * | * | * | ♈ | * | ☐ | |
| 14 | 28 26 | 1 22 23 | 44 0 42 | 4 50 | ☉Δ♈ | | | | | | | | | |
| 15 | 28 24 | 1 33 24 | 32 0 57 | 6 18 | | | | | ☐ | | | | | |
| 16 | 28 23 | 1 43 25 | 19 1 11 | 7 47 | ♊Δ♈ | | | | | ☐ | | | * | ♈ |
| 17 | 28 22 | 1 54 26 | 7 1 23 | 9 17 | ☉Δ♈ | | | | | | | | | |
| 18 | 28 21 | 2 4 26 | 54 1 33 | 10 49 | | | | ♈ | Δ | Δ | * | ♈ | | |
| 19 | 28 19 | 2 14 27 | 41 1 40 | 12 22 | | | | | | | | | | |
| 20 | 28 18 | 2 24 28 | 28 1 45 | 13 56 | ♊Δ♈ | | | | | | | | | |
| 21 | 28 16 | 2 34 29 | 15 1 R47 | 15 31 | ☉*♈ | | | | | | ☐ | | ♈ | |
| 22 | 28 15 | 2 43 0 | * 3 1 48 | 17 6 | | | | | | | | | | * |
| 23 | 28 13 | 2 53 0 | 50 1 43 | 18 42 | | | | * | ♊ | ♊ | Δ | * | | |
| 24 | 28 11 | 3 3 1 38 | 1 37 20 | 19 | | | | | | | | | | |
| 25 | 28 9 | 3 12 2 25 | 1 29 21 | 58 | | | | | | | | ☐ | * | ☐ |
| 26 | 28 7 | 3 22 3 12 | 1 18 23 | 38 | ♊Δ♈ | ☐ | | | | | | | | |
| 27 | 28 5 | 3 31 4 0 | 1 5 25 | 19 | ♋Δ♈ | | | Δ | Δ | | | | ☐ | Δ |
| 28 | 28 3 | 3 41 4 47 | 0 51 27 | 0 | | | | Δ | | | ♊ | Δ | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 37 | 9 S 12 | 2 N 41 | 8 S 16 | 0 N 19 | 23 S 6 |
| 4 | 16 | 9 | 0 37 | 9 10 | 2 42 | 8 12 | 0 19 | 23 5 |
| 7 | 16 | 8 | 0 37 | 9 8 | 2 43 | 8 9 | 0 18 | 23 4 |
| 10 | 16 | 8 | 0 37 | 9 6 | 2 43 | 8 6 | 0 18 | 23 4 |
| 13 | 16 | 7 | 0 37 | 9 4 | 2 44 | 8 2 | 0 18 | 23 3 |
| 16 | 16 | 6 | 0 37 | 9 2 | 2 44 | 7 57 | 0 18 | 23 2 |
| 19 | 16 | 5 | 0 37 | 9 0 | 2 45 | 7 53 | 0 18 | 23 1 |
| 22 | 16 | 4 | 0 37 | 8 58 | 2 45 | 7 48 | 0 18 | 23 1 |
| 25 | 16 | 3 | 0 37 | 8 56 | 2 46 | 7 44 | 0 17 | 23 0 |
| 28 | 16 | 3 | 0 37 | 8 54 | 2 46 | 7 40 | 0 17 | 22 59 |
| 31 | 16 | 2 | 0 37 | 8 51 | 2 47 | 7 35 | 0 16 | 22 58 |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
| | | H. M. S. | ° | ' | ° | ° | ° | ° |
| 1 | S | 22 34 25 | 10 16 58 | 7 S 43 | 23 26 | 1 S 35 | 19 N 52 | 25 15 |
| 2 | S | 22 38 22 | 11 17 4 | 7 20 | 8 12 | 2 46 | 15 34 | 25 13 |
| 3 | M | 22 42 19 | 12 17 8 | 6 58 | 23 5 | 3 46 | 10 17 | 25 11 |
| 4 | Tu | 22 46 15 | 13 17 9 | 6 35 | 7 58 | 4 30 | 4 25 | 25 9 |
| 5 | W | 22 50 10 | 14 17 9 | 6 11 | 22 42 | 4 56 | 1 S 38 | 25 8 |
| 6 | Th | 22 54 8 | 15 17 7 | 5 48 | 7 8 | 5 2 | 7 28 | 25 6 |
| 7 | F | 22 58 5 | 16 17 3 | 5 25 | 21 11 | 4 50 | 12 45 | 25 4 |
| 8 | S | 23 2 1 | 17 16 57 | 5 2 | 4 46 | 4 21 | 17 13 | 25 2 |
| 9 | S | 23 5 58 | 18 16 49 | 4 38 | 17 54 | 3 39 | 20 42 | 25 1 |
| 10 | M | 23 9 55 | 19 16 40 | 4 15 | 0 37 | 2 48 | 23 2 | 24 59 |
| 11 | Tu | 23 13 51 | 20 16 29 | 3 51 | 12 58 | 1 50 | 24 12 | 24 57 |
| 12 | W | 23 17 48 | 21 16 16 | 3 28 | 25 2 | 0 48 | 24 10 | 24 55 |
| 13 | Th | 23 21 44 | 22 16 2 | 3 4 | 6 55 | 0 N 15 | 23 2 | 24 53 |
| 14 | F | 23 25 41 | 23 15 46 | 2 41 | 18 42 | 1 17 | 20 53 | 24 51 |
| 15 | S | 23 29 38 | 24 15 28 | 2 17 | 0 29 | 2 15 | 17 52 | 24 49 |
| 16 | S | 23 33 34 | 25 15 9 | 1 53 | 12 21 | 3 8 | 14 6 | 24 47 |
| 17 | M | 23 37 30 | 26 14 48 | 1 30 | 24 20 | 3 53 | 9 46 | 24 45 |
| 18 | Tu | 23 41 27 | 27 14 24 | 1 6 | 6 30 | 4 28 | 4 59 | 24 43 |
| 19 | W | 23 45 24 | 28 13 59 | 0 42 | 18 53 | 4 51 | 0 N 3 | 24 41 |
| 20 | Th | 23 49 20 | 29 13 32 | 0 18 | 1 29 | 5 0 | 5 10 | 24 39 |
| 21 | F | 23 52 17 | 0 13 3 | 0 N 5 | 14 18 | 4 54 | 10 10 | 24 36 |
| 22 | S | 23 56 13 | 1 12 32 | 0 29 | 27 20 | 4 33 | 14 47 | 24 34 |
| 23 | S | 0 1 9 | 2 11 58 | 0 53 | 10 33 | 3 58 | 18 45 | 24 32 |
| 24 | M | 0 5 6 | 3 11 22 | 1 16 | 23 56 | 3 8 | 21 49 | 24 29 |
| 25 | Tu | 0 9 8 | 4 10 44 | 1 40 | 7 30 | 2 8 | 23 41 | 24 27 |
| 26 | W | 0 12 59 | 5 10 3 | 2 3 | 21 14 | 0 59 | 24 9 | 24 24 |
| 27 | Th | 0 16 56 | 6 9 20 | 2 27 | 5 8 | 0 S 15 | 23 7 | 24 21 |
| 28 | F | 0 20 52 | 7 8 35 | 2 50 | 19 13 | 1 28 | 20 38 | 24 19 |
| 29 | S | 0 24 49 | 8 7 47 | 3 14 | 3 28 | 2 36 | 16 52 | 24 16 |
| 30 | S | 0 29 45 | 9 6 58 | 3 37 | 17 51 | 3 36 | 12 4 | 24 14 |
| 31 | M | 0 32 42 | 10 6 5 | 4 0 | 2 19 | 4 21 | 6 35 | 24 12 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 3 | 10 S 27 | 7 N 52 | 7 N 26 | 2 S 9 | 13 S 58 | 4 W 5 |
| 4 | 1 8 | 9 34 | 8 19 | 7 15 | 2 8 | 12 4 | 8 55 |
| 7 | 1 2 | 8 40 | 8 31 | 7 1 | 2 3 | 9 58 | 3 46 |
| 10 | 1 1 | 7 45 | 8 40 | 6 30 | 1 58 | 7 41 | 3 36 |
| 13 | 1 0 | 6 50 | 8 42 | 5 47 | 1 38 | 5 13 | 3 27 |
| 16 | 1 0 | 5 53 | 8 35 | 4 50 | 1 19 | 2 36 | 3 17 |
| 19 | 0 59 | 4 57 | 8 18 | 3 58 | 0 55 | 0 N 10 | 3 8 |
| 22 | 0 58 | 4 0 | 7 56 | 2 58 | 0 26 | 3 1 | 2 58 |
| 25 | 0 57 | 3 5 | 7 25 | 1 59 | 0 N 7 | 5 51 | 2 49 |
| 28 | 0 56 | 2 10 | 6 48 | 0 57 | 0 42 | 3 37 | 2 39 |
| 31 | 0 55 | 1 5 | 6 16 | 0 8 | 1 17 | 11 11 | 2 29 |

| D | h | z | δ | ♀ | ♂ | Mutual | Lunar | Aspects. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|----|-------|-------|-------|-------|-------|--------|--------|----------|----|----|---|---|---|---|---|---|---|---|---|---|---|---|
| N | Long. | Long. | Long. | Long. | Long. | Aspts. | Aspts. | Aspts. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
| 1 | 28 | 1 | 3 | 50 | 5 | 35 | 0 | 35 | 28 | 42 | | ☐ | ☐ | | | | | | | Δ | | |
| 2 | 27 | 55 | 3 | 59 | 6 | 22 | 0 | 14 | 0 | 25 | | | | | | | | | | | | |
| 3 | 27 | 57 | 4 | 7 | 7 | 10 | 29 | 61 | 3 | 10 | | ■ | * | | | | | | | | | |
| 4 | 27 | 54 | 4 | 16 | 7 | 57 | 29 | 26 | 3 | 56 | | | | | Δ | ♂ | | | ♂ | | ♂ | |
| 5 | 27 | 52 | 4 | 24 | 8 | 44 | 28 | 59 | 5 | 48 | | | | | | | | | | ♂ | | |
| 6 | 27 | 49 | 4 | 33 | 9 | 32 | 28 | 30 | 7 | 31 | | | | | | | | | | | | |
| 7 | 27 | 46 | 4 | 41 | 10 | 19 | 27 | 59 | 9 | 20 | | ♂ | ♂ | | | | | | | | | |
| 8 | 27 | 43 | 4 | 49 | 11 | 6 | 27 | 26 | 11 | 10 | | | | | * | | | | | | | |
| 9 | 27 | 40 | 4 | 57 | 11 | 53 | 26 | 51 | 13 | 1 | | | | | | | | | Δ | | | Δ |
| 10 | 27 | 37 | 5 | 5 | 11 | 41 | 26 | 16 | 14 | 54 | | | | | | | | | | Δ | | |
| 11 | 27 | 34 | 5 | 13 | 13 | 28 | 25 | 40 | 16 | 48 | | | | | | | | | | ☐ | | ☐ |
| 12 | 27 | 31 | 5 | 21 | 14 | 16 | 25 | 4 | 18 | 42 | | ☐ | * | * | | | | | | ☐ | | |
| 13 | 27 | 27 | 5 | 28 | 15 | 2 | 24 | 27 | 20 | 38 | ♀ | ♂ | ♀ | | | | | | ♂ | | | |
| 14 | 27 | 24 | 5 | 35 | 15 | 49 | 23 | 60 | 22 | 34 | ☉ | ♂ | ♀ | * | | | | | * | * | * | |
| 15 | 27 | 20 | 5 | 42 | 16 | 36 | 23 | 13 | 24 | 32 | ☉ | ♂ | ♀ | | ☐ | ☐ | | | | | | |
| 16 | 27 | 17 | 5 | 49 | 17 | 23 | 22 | 36 | 26 | 31 | | | | | | | | | | | | |
| 17 | 27 | 13 | 5 | 56 | 18 | 10 | 21 | 59 | 28 | 31 | | | | | Δ | Δ | | | | | | |
| 18 | 27 | 10 | 6 | 3 | 18 | 57 | 21 | 22 | 0 | 31 | | | | | | | * | | | | | |
| 19 | 27 | 6 | 6 | 10 | 19 | 44 | 20 | 46 | 2 | 31 | | | | | | | | ♂ | ♂ | | | |
| 20 | 27 | 3 | 6 | 16 | 20 | 31 | 20 | 11 | 4 | 32 | | ♂ | | | | | | | ☐ | | | ♂ |
| 21 | 26 | 59 | 6 | 22 | 21 | 18 | 19 | 38 | 6 | 33 | ♀ | ☐ | ♂ | | | | | | | | | |
| 22 | 26 | 55 | 6 | 28 | 22 | 5 | 19 | 7 | 8 | 34 | | | | | | | | | | | | |
| 23 | 26 | 51 | 6 | 34 | 22 | 52 | 18 | 38 | 10 | 35 | | | | | | | | | | | | |
| 24 | 26 | 47 | 6 | 40 | 23 | 39 | 18 | 11 | 12 | 35 | | | | | | | | | * | * | | |
| 25 | 26 | 43 | 6 | 46 | 24 | 26 | 17 | 45 | 14 | 34 | | * | | | | | | | | | | |
| 26 | 26 | 39 | 6 | 51 | | | 17 | 22 | 16 | 32 | | | | | Δ | Δ | | | | ☐ | ☐ | * |
| 27 | 26 | 35 | 6 | 54 | | | 17 | 1 | 18 | 28 | | ☐ | | | | | | | | | | |
| 28 | 26 | 31 | 7 | | | | 16 | 43 | 20 | 22 | ☉ | ☐ | ♂ | | | | | | | | | ☐ |
| 29 | 26 | 26 | 7 | | | | 16 | 27 | 22 | 14 | | | | | | | | | | | | |
| 30 | 26 | 23 | 7 | 1 | | | 16 | 13 | 24 | 9 | ♀ | ♂ | ♂ | ♂ | | | | | * | | | Δ |
| 31 | 26 | 18 | 7 | 14 | | | 16 | 1 | 25 | 49 | ♀ | ♂ | ♂ | ♂ | | | | | * | Δ | | |

| 8 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1806. | | |
|-----------------|-------------------|-----------------------------------|-----------|------------|--------------|------------|-----------|--------------|------------|-------|--------|--------|----|----|
| APRIL XXX DAYS. | | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 37 | 8 S 49 | 2 N 46 | 7 S 33 | 0 N 17 | 22 S 58 | | | | | | |
| 4 | 16 | 0 | 0 37 | 8 46 | 2 46 | 7 28 | 0 17 | 22 58 | | | | | | |
| 7 | 15 | 59 | 0 37 | 8 43 | 2 46 | 7 24 | 0 17 | 22 57 | | | | | | |
| 10 | 15 | 58 | 0 37 | 8 39 | 2 46 | 7 19 | 0 17 | 22 57 | | | | | | |
| 13 | 15 | 58 | 0 37 | 8 36 | 2 46 | 7 14 | 0 16 | 22 57 | | | | | | |
| 16 | 15 | 57 | 0 37 | 8 34 | 2 46 | 7 9 | 0 16 | 22 58 | | | | | | |
| 19 | 15 | 56 | 0 37 | 8 32 | 2 46 | 7 4 | 0 16 | 22 58 | | | | | | |
| 22 | 15 | 56 | 0 37 | 8 30 | 2 46 | 6 59 | 0 16 | 22 58 | | | | | | |
| 25 | 15 | 55 | 0 37 | 8 27 | 2 46 | 6 54 | 0 15 | 22 58 | | | | | | |
| 28 | 15 | 54 | 0 37 | 8 24 | 2 46 | 6 49 | 0 15 | 22 58 | | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin. | ☿
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. | | | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | " | ° | ' |
| 1 | Tu | 0 | 36 | 39 | 11 | 5 | 11 | 4 N 23 | 16 | m 46 | 4 S 50 | 0 N 46 | 24 | 10 |
| 2 | W | 0 | 40 | 36 | 12 | 4 | 14 | 4 47 | 1 | 7 | 5 1 | 5 S 3 | 24 | 8 |
| 3 | Th | 0 | 44 | 32 | 13 | 3 | 15 | 5 10 | 15 | 16 | 4 53 | 10 31 | 24 | 5 |
| 4 | F | 0 | 47 | 29 | 14 | 2 | 14 | 5 33 | 29 | 6 | 4 27 | 15 19 | 24 | 3 |
| 5 | S | 0 | 52 | 25 | 15 | 1 | 11 | 5 55 | 12 | m 35 | 3 47 | 19 14 | 24 | 1 |
| 6 | S | 0 | 56 | 21 | 16 | 0 | 7 | 6 18 | 25 | 40 | 2 56 | 22 3 | 23 | 59 |
| 7 | M | 1 | 0 | 18 | 16 | 59 | 0 | 6 41 | 8 | f 23 | 1 57 | 23 39 | 23 | 57 |
| 8 | Tu | 1 | 4 | 15 | 17 | 57 | 52 | 7 3 | 20 | 45 | 0 54 | 24 3 | 23 | 54 |
| 9 | W | 1 | 8 | 11 | 18 | 56 | 42 | 7 26 | 2 | w 52 | 0 N 10 | 23 16 | 23 | 51 |
| 10 | Th | 1 | 12 | 8 | 19 | 55 | 30 | 7 48 | 14 | 47 | 1 12 | 21 27 | 23 | 48 |
| 11 | F | 1 | 16 | 4 | 20 | 54 | 17 | 8 10 | 26 | 36 | 2 12 | 18 42 | 23 | 45 |
| 12 | S | 1 | 20 | 0 | 21 | 53 | 2 | 8 32 | 8 | m 25 | 3 5 | 15 11 | 23 | 42 |
| 13 | S | 1 | 23 | 57 | 22 | 51 | 45 | 8 54 | 20 | 19 | 3 51 | 11 5 | 23 | 40 |
| 14 | M | 1 | 27 | 54 | 23 | 50 | 27 | 9 16 | 2 | x 23 | 4 27 | 6 29 | 23 | 37 |
| 15 | Tu | 1 | 31 | 51 | 24 | 49 | 7 | 9 37 | 14 | 40 | 4 52 | 1 34 | 23 | 34 |
| 16 | W | 1 | 35 | 47 | 25 | 47 | 45 | 9 59 | 27 | 12 | 5 3 | 3 N 31 | 23 | 32 |
| 17 | Th | 1 | 39 | 43 | 26 | 46 | 21 | 10 20 | 10 | r 2 | 4 59 | 8 34 | 23 | 29 |
| 18 | F | 1 | 43 | 39 | 27 | 44 | 56 | 10 41 | 23 | 10 | 4 40 | 13 20 | 23 | 27 |
| 19 | S | 1 | 47 | 35 | 28 | 43 | 28 | 11 2 | 6 | 33 | 4 4 | 17 34 | 23 | 24 |
| 20 | S | 1 | 51 | 33 | 29 | 41 | 59 | 11 24 | 20 | 10 | 3 15 | 20 56 | 23 | 22 |
| 21 | M | 1 | 55 | 28 | 0 | 3 | 40 | 11 44 | 3 | 11 58 | 2 13 | 23 9 | 23 | 19 |
| 22 | Tu | 1 | 59 | 25 | 1 | 38 | 54 | 12 4 | 17 | 53 | 1 8 | 23 57 | 23 | 16 |
| 23 | W | 2 | 3 | 22 | 2 | 37 | 18 | 12 24 | 1 | 55 | 0 S 12 | 23 15 | 23 | 13 |
| 24 | Th | 2 | 7 | 18 | 3 | 35 | 41 | 12 44 | 16 | 0 | 1 26 | 21 5 | 23 | 11 |
| 25 | F | 2 | 11 | 15 | 4 | 34 | 1 | 13 3 | 0 | 2 | 2 35 | 17 37 | 23 | 8 |
| 26 | S | 2 | 15 | 12 | 5 | 32 | 19 | 13 23 | 14 | 16 | 3 36 | 13 8 | 23 | 6 |
| 27 | S | 2 | 19 | 8 | 6 | 30 | 35 | 13 42 | 28 | 24 | 4 22 | 7 56 | 23 | 3 |
| 28 | M | 2 | 23 | 5 | 7 | 28 | 49 | 14 1 | 12 | m 31 | 4 53 | 2 21 | 23 | 0 |
| 29 | Tu | 2 | 27 | 1 | 8 | 27 | 1 | 14 20 | 26 | 44 | 5 6 | 3 S 18 | 22 | 58 |
| 30 | W | 2 | 30 | 58 | 9 | 25 | 11 | 14 39 | 10 | 26 | 5 1 | 8 45 | 22 | 56 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , ' , " | ° , ' , " | ° , ' , " | ° , ' , " | ° , ' , " | ° , ' , " | ° , ' , " |
| 1 | 08 41 | 8 N 16 | 0 N 24 | 08 54 | 0 N 14 | 14 N 20 | 0 52 |
| 4 | 0 40 | 9 8 | 0 4 | 0 23 | 08 38 | 12 56 | 0 42 |
| 7 | 0 38 | 9 59 | 08 21 | 0 N 15 | 1 26 | 11 41 | 0 32 |
| 10 | 0 36 | 10 48 | 0 45 | 0 52 | 2 9 | 10 43 | 0 23 |
| 13 | 0 34 | 11 37 | 0 59 | 1 41 | 2 43 | 10 6 | 0 13 |
| 16 | 0 33 | 12 24 | 1 14 | 2 30 | 3 9 | 9 51 | 0 4 |
| 19 | 0 31 | 13 10 | 1 30 | 3 20 | 3 25 | 9 58 | 29 54 |
| 22 | 0 29 | 13 54 | 1 42 | 4 17 | 3 33 | 10 25 | 29 45 |
| 25 | 0 27 | 14 39 | 1 54 | 5 10 | 3 34 | 11 9 | 29 35 |
| 28 | 0 26 | 15 19 | 2 4 | 6 16 | 3 27 | 12 8 | 29 26 |
| 31 | 0 24 | 16 5 | 2 12 | 7 32 | 3 14 | 13 19 | 29 16 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° , ' , " | ° , ' , " | ° , ' , " | ° , ' , " | ° , ' , " | | | | | | | | |
| 1 | 23 59 | 8 12 | 22 53 | 26 48 | 7 46 | ♂ ♂ ☿ | ♂ | ♂ | | | | ♂ | |
| 2 | 23 54 | 8 10 | 23 38 | 27 32 | 7 8 | ♂ ♂ ♈ | ♂ | ♂ | * | | | | ♂ |
| 3 | 23 50 | 8 9 | 24 24 | 17 28 | 6 32 | | | | | | | | |
| 4 | 23 46 | 8 7 | 25 9 | 29 3 | 5 57 | | | | | | | Δ | |
| 5 | 23 42 | 8 6 | 25 55 | 29 50 | 5 25 | | | | | | | | |
| 6 | 23 38 | 8 4 | 26 40 | 0 37 | 4 56 | | | * | * | | Δ | □ | Δ |
| 7 | 23 34 | 8 2 | 27 25 | 1 25 | 4 30 | | | | | ♈ | | | Δ |
| 8 | 23 30 | 8 0 | 28 10 | 2 14 | 4 8 | | Δ | □ | □ | | □ | | |
| 9 | 23 26 | 7 57 | 28 55 | 3 4 | 3 50 | | | | | | | * | □ |
| 10 | 23 22 | 7 55 | 29 40 | 3 54 | 3 37 | | □ | | | | | | |
| 11 | 23 18 | 7 52 | 0 25 | 4 45 | 3 28 | | | Δ | Δ | | * | | * |
| 12 | 23 14 | 7 50 | 1 10 | 5 37 | 3 23 | | | | | * | | | * |
| 13 | 23 10 | 7 47 | 1 54 | 6 30 | 3 23 | | * | | | | | | |
| 14 | 23 6 | 7 43 | 2 39 | 7 23 | 3 27 | ♀ ☿ ♄ | | ♈ | ♈ | □ | | ♈ | . |
| 15 | 23 2 | 7 39 | 3 24 | 8 16 | 3 36 | ♀ ☿ ♂ | | ♈ | ♈ | | | | |
| 16 | 22 59 | 7 35 | 4 8 | 9 10 | 3 50 | | | | | Δ | ♈ | | ♈ |
| 17 | 22 55 | 7 31 | 4 53 | 10 4 | 4 8 | | | | | | | | |
| 18 | 22 52 | 7 27 | 5 38 | 10 59 | 4 31 | | ♈ | | | | | | |
| 19 | 22 49 | 7 23 | 6 22 | 11 55 | 4 58 | | | | | | | * | |
| 20 | 22 46 | 7 18 | 7 7 | 12 51 | 5 29 | ♈ Δ ♄ | | Δ | Δ | | | | |
| 21 | 22 43 | 7 14 | 7 51 | 13 48 | 6 4 | | | | | ♈ | * | □ | * |
| 22 | 22 40 | 7 9 | 8 36 | 14 45 | 6 43 | | * | □ | □ | | | □ | Δ |
| 23 | 22 37 | 7 5 | 9 20 | 15 48 | 7 26 | ♀ Δ ♄ | | * | * | | | □ | Δ |
| 24 | 22 34 | 7 0 | 10 5 | 16 40 | 8 12 | | | | | | | | |
| 25 | 22 31 | 6 55 | 10 49 | 17 38 | 9 2 | | □ | | | Δ | Δ | | Δ |
| 26 | 22 28 | 6 50 | 11 8 | 18 37 | 9 55 | | | | | | | | |
| 27 | 22 25 | 6 45 | 12 17 | 19 36 | 10 52 | | Δ | | | □ | | | |
| 28 | 22 23 | 6 39 | 13 1 | 20 36 | 11 52 | | | ♈ | ♈ | | | ♈ | |
| 29 | 22 20 | 6 34 | 13 45 | 21 36 | 12 55 | | | | | * | | | |
| 30 | 22 17 | 6 28 | 14 29 | 22 36 | 14 2 | ♀ ♂ ♈ | | | | | | ♈ | ♈ |
| 31 | 22 15 | 6 22 | 15 13 | 23 36 | 15 12 | ♀ ☿ ♂ | | | | | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 36 | 7 8 59 | 2 N 41 | 6 S 10 | 0 N 12 | 23 S 7 |
| 4 | 15 | 48 | 0 36 | 7 57 | 2 41 | 6 8 | 0 12 | 23 9 |
| 7 | 15 | 47 | 0 36 | 7 55 | 2 40 | 6 7 | 0 11 | 23 10 |
| 10 | 15 | 47 | 0 36 | 7 54 | 2 39 | 6 6 | 0 11 | 23 11 |
| 13 | 15 | 46 | 0 36 | 7 54 | 2 38 | 6 5 | 0 10 | 23 12 |
| 16 | 15 | 46 | 0 36 | 7 53 | 2 38 | 6 3 | 0 10 | 23 13 |
| 19 | 15 | 46 | 0 36 | 7 53 | 2 37 | 6 4 | 0 9 | 23 15 |
| 22 | 15 | 46 | 0 35 | 7 52 | 2 36 | 6 4 | 0 9 | 23 16 |
| 25 | 15 | 46 | 0 35 | 7 52 | 2 35 | 6 5 | 0 9 | 23 17 |
| 28 | 15 | 45 | 0 35 | 7 52 | 2 34 | 6 6 | 0 9 | 23 18 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 4 37 8 | 10 11 14 | 122 N 0 | 12 1 12 | 1 S 27 | 23 S 43 | 21 53 |
| 2 | M | 4 41 4 | 11 11 26 | 22 8 | 24 35 | 0 20 | 23 41 | 21 52 |
| 3 | Tu | 4 45 1 | 12 8 50 | 22 16 | 6 45 | 0 N 47 | 22 31 | 21 50 |
| 4 | W | 4 48 57 | 13 6 14 | 22 24 | 18 46 | 1 51 | 20 19 | 21 49 |
| 5 | Th | 4 52 54 | 14 3 37 | 22 31 | 0 39 | 2 50 | 17 16 | 21 47 |
| 6 | F | 4 56 50 | 15 0 59 | 22 37 | 12 30 | 3 41 | 13 82 | 21 46 |
| 7 | S | 5 0 47 | 15 58 21 | 22 43 | 24 21 | 4 23 | 9 17 | 21 45 |
| 8 | S | 5 4 44 | 16 55 42 | 22 49 | 6 16 | 4 54 | 4 40 | 21 44 |
| 9 | M | 5 8 40 | 17 53 32 | 22 55 | 18 21 | 5 12 | 0 N 12 | 21 43 |
| 10 | Tu | 5 12 37 | 18 50 23 | 23 0 | 0 40 | 5 17 | 5 7 | 21 42 |
| 11 | W | 5 16 38 | 19 47 43 | 23 4 | 13 17 | 5 6 | 9 57 | 21 41 |
| 12 | Th | 5 20 30 | 20 45 3 | 23 8 | 26 16 | 4 40 | 14 30 | 21 40 |
| 13 | F | 5 24 26 | 21 42 22 | 23 12 | 9 38 | 3 58 | 18 29 | 21 39 |
| 14 | S | 5 28 23 | 22 39 41 | 23 16 | 23 25 | 3 21 | 35 | 21 38 |
| 15 | S | 5 32 20 | 23 37 0 | 23 19 | 7 36 | 1 52 | 23 27 | 21 37 |
| 16 | M | 5 36 16 | 24 34 18 | 23 21 | 22 6 | 0 34 | 23 48 | 21 37 |
| 17 | Tu | 5 40 13 | 25 31 35 | 23 23 | 6 51 | 0 S 47 | 22 30 | 21 36 |
| 18 | W | 5 44 10 | 26 28 52 | 23 25 | 21 42 | 2 7 | 19 38 | 21 35 |
| 19 | Th | 5 48 7 | 27 26 9 | 23 26 | 6 33 | 3 17 | 15 28 | 21 35 |
| 20 | F | 5 52 4 | 28 23 24 | 23 27 | 21 16 | 4 14 | 10 25 | 21 34 |
| 21 | S | 5 56 0 | 29 20 40 | 23 28 | 5 47 | 4 53 | 4 51 | 21 34 |
| 22 | S | 5 59 56 | 0 17 54 | 23 28 | 20 0 | 5 14 | 0 S 51 | 21 34 |
| 23 | M | 6 3 52 | 1 15 8 | 23 27 | 3 54 | 5 16 | 6 23 | 21 33 |
| 24 | Tu | 6 7 49 | 2 12 21 | 23 27 | 17 29 | 5 0 | 11 29 | 21 33 |
| 25 | W | 6 11 46 | 3 9 34 | 23 26 | 0 44 | 4 28 | 15 55 | 21 33 |
| 26 | Th | 6 15 43 | 4 6 46 | 23 24 | 13 43 | 3 43 | 19 31 | 21 33 |
| 27 | F | 6 19 39 | 5 3 58 | 23 22 | 26 25 | 2 48 | 22 7 | 21 33 |
| 28 | S | 6 23 36 | 6 1 10 | 23 20 | 8 55 | 1 46 | 23 33 | 21 33 |
| 29 | S | 6 27 33 | 6 58 21 | 23 17 | 21 14 | 0 39 | 23 50 | 21 D 33 |
| 30 | M | 6 31 29 | 7 55 32 | 23 14 | 3 22 | 0 N 28 | 22 57 | 21 33 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 08 23 | 16 N 14 | 2 S 14 | 7 N 27 | 3 S 9 | 13 N 45 | 29 † 13 |
| 4 | 0 21 | 16 54 | 2 19 | 8 30 | 2 48 | 15 9 | 29 3 |
| 7 | 0 19 | 17 32 | 2 27 | 9 27 | 2 24 | 16 39 | 28 54 |
| 10 | 0 17 | 18 7 | 2 30 | 10 30 | 1 55 | 18 12 | 28 44 |
| 13 | 0 15 | 18 32 | 2 33 | 11 28 | 1 23 | 19 44 | 28 35 |
| 16 | 0 13 | 19 14 | 2 34 | 12 28 | 0 49 | 21 12 | 28 25 |
| 19 | 0 11 | 19 46 | 2 35 | 13 26 | 0 15 | 22 30 | 28 16 |
| 22 | 0 9 | 20 14 | 2 35 | 14 24 | 0 N 18 | 23 33 | 28 6 |
| 25 | 0 7 | 20 42 | 2 34 | 15 19 | 0 48 | 24 15 | 27 57 |
| 28 | 0 4 | 21 8 | 2 32 | 16 17 | 1 13 | 24 34 | 27 47 |

| D
M | h | | ♄ | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 22 12 | 6 16 | 15 56 | 24 36 | 16 25 | | | | | | | ♂ | | | | | |
| 2 | 22 10 | 6 10 | 16 40 | 25 37 | 17 39 | | | | | | | | * | * | | | Δ |
| 3 | 22 8 | 6 3 | 17 24 | 26 38 | 18 58 | | | | | | | | | | ♂ | | |
| 4 | 22 6 | 5 57 | 18 7 | 27 40 | 20 21 | | | | | | | | ☐ | ☐ | | Δ | Δ |
| 5 | 22 4 | 5 50 | 18 51 | 28 41 | 21 46 | | | | | | | | | | | | ☐ |
| 6 | 22 2 | 5 44 | 19 35 | 29 43 | 23 13 | | | | | | | Δ | | | | | |
| 7 | 22 0 | 5 37 | 20 18 | 0 45 | 24 43 | | | | | | | | Δ | Δ | | ☐ | ☐ |
| 8 | 21 58 | 5 30 | 21 2 | 1 47 | 26 16 | | | | | | | | | | * | * | |
| 9 | 21 57 | 5 23 | 21 45 | 2 50 | 27 52 | | | | | | | ☐ | | | | * | |
| 10 | 21 55 | 5 16 | 22 28 | 3 53 | 29 30 | | | | | | | | | | ☐ | | * |
| 11 | 21 54 | 5 9 | 23 11 | 4 56 | 1 11 | ♀ Δ ♄ | | | | | | | | | | | |
| 12 | 21 52 | 5 2 | 23 54 | 6 0 | 2 55 | | | | | | | * | ♂ | ♂ | | | |
| 13 | 21 51 | 4 55 | 24 37 | 7 4 | 4 42 | ☉ Δ ♈ | | | | | | | | | Δ | | ♂ |
| 14 | 21 50 | 4 48 | 25 20 | 8 8 | 6 32 | ☉ Δ ♈ | | | | | | | | | | ♂ | |
| 15 | 21 49 | 4 40 | 26 3 | 9 13 | 8 24 | | | | | | | | | | | | ♂ |
| 16 | 21 48 | 4 33 | 26 46 | 10 17 | 10 18 | | | | | | | ♂ | Δ | Δ | | | |
| 17 | 21 47 | 4 25 | 27 29 | 11 22 | 12 14 | | | | | | | | | | ♂ | * | |
| 18 | 21 46 | 4 18 | 28 12 | 12 26 | 14 13 | | | | | | | | ☐ | ☐ | | * | |
| 19 | 21 46 | 4 10 | 28 54 | 13 31 | 16 15 | | | | | | | | | | | | |
| 20 | 21 46 | 4 2 | 29 37 | 14 36 | 18 18 | | | | | | | | * | * | | ☐ | * |
| 21 | 21 46 | 3 55 | 0 11 | 15 42 | 20 23 | ♂ Δ ♈ | | | | | | * | | | | Δ | ☐ |
| 22 | 21 45 | 3 47 | 1 2 | 16 47 | 22 30 | ♂ Δ ♈ | | | | | | | | | | | Δ |
| 23 | 21 45 | 3 40 | 1 45 | 17 53 | 24 38 | | | | | | | ☐ | | | ☐ | Δ | |
| 24 | 21 45 | 3 32 | 2 28 | 18 58 | 26 47 | | | | | | | | ♂ | ♂ | | | |
| 25 | 21 D 45 | 3 24 | 3 10 | 20 4 | 28 57 | ☉ ♂ ♄ | | | | | | Δ | | | | * | Δ |
| 26 | 21 45 | 3 17 | 3 53 | 21 10 | 1 7 | | | | | | | | | | | | |
| 27 | 21 45 | 3 9 | 4 35 | 22 17 | 3 18 | ♂ ♂ ♄ | | | | | | | | | | | ♂ |
| 28 | 21 45 | 3 1 | 5 17 | 23 23 | 5 30 | ☉ ♂ ♂ | | | | | | | | | | ♂ | |
| 29 | 21 46 | 2 54 | 5 39 | 24 30 | 7 41 | | | | | | | | * | * | | | |
| 30 | 21 46 | 2 46 | 6 41 | 25 36 | 9 51 | | | | | | | ♂ | | | ♂ | | |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 35 | 7 S 52 | 2 N 33 | 6 S 7 | 0 N 8 | 23 S 18 |
| 4 | 15 | 45 | 0 35 | 7 52 | 2 33 | 6 9 | 0 8 | 23 19 |
| 7 | 15 | 45 | 0 35 | 7 53 | 2 32 | 6 11 | 0 7 | 23 20 |
| 10 | 15 | 46 | 0 35 | 7 54 | 2 31 | 6 13 | 0 7 | 23 21 |
| 13 | 15 | 46 | 0 35 | 7 55 | 2 30 | 6 15 | 0 6 | 23 21 |
| 16 | 15 | 46 | 0 35 | 7 56 | 2 30 | 6 18 | 0 6 | 23 22 |
| 19 | 15 | 46 | 0 35 | 7 56 | 2 29 | 6 21 | 0 5 | 23 22 |
| 22 | 15 | 46 | 0 34 | 7 57 | 2 28 | 6 25 | 0 5 | 23 23 |
| 25 | 15 | 47 | 0 34 | 7 59 | 2 27 | 6 29 | 0 4 | 23 23 |
| 28 | 15 | 47 | 0 34 | 8 0 | 2 27 | 6 33 | 0 4 | 23 24 |
| 31 | 15 | 47 | 0 34 | 8 2 | 2 27 | 6 38 | 0 4 | 23 24 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 6 35 26 | 8 52 43 | 23 N 10 | 15 w 23 | 1 N 33 | 21 S 2 | 21 33 |
| 2 | W | 6 39 22 | 9 49 53 | 23 6 | 27 18 | 2 34 | 18 12 | 21 33 |
| 3 | Th | 6 43 19 | 10 47 4 | 23 1 | 9 m 9 | 3 27 | 14 39 | 21 33 |
| 4 | F | 6 48 14 | 11 44 15 | 22 57 | 20 59 | 4 12 | 10 32 | 21 34 |
| 5 | S | 6 51 12 | 12 41 27 | 22 51 | 2 x 51 | 4 46 | 6 2 | 21 34 |
| 6 | S | 6 55 9 | 13 38 38 | 22 46 | 14 47 | 5 7 | 1 16 | 21 34 |
| 7 | M | 6 59 5 | 14 35 50 | 22 40 | 26 52 | 5 16 | 3 N 35 | 21 35 |
| 8 | Tu | 7 3 2 | 15 33 3 | 22 33 | 9 r 9 | 5 10 | 8 23 | 21 35 |
| 9 | W | 7 6 58 | 16 30 16 | 22 27 | 21 43 | 4 50 | 12 57 | 21 35 |
| 10 | Th | 7 10 55 | 17 27 30 | 22 19 | 4 x 37 | 4 14 | 17 4 | 21 36 |
| 11 | F | 7 14 51 | 18 24 44 | 22 12 | 17 56 | 3 24 | 20 28 | 21 36 |
| 12 | S | 7 18 48 | 19 21 58 | 22 4 | 1 40 | 2 21 | 22 49 | 21 37 |
| 13 | S | 7 22 45 | 20 19 14 | 21 55 | 15 51 | 1 8 | 23 50 | 21 38 |
| 14 | M | 7 26 41 | 21 16 29 | 21 47 | 0 26 | 0 S 18 | 23 15 | 21 39 |
| 15 | Tu | 7 30 37 | 22 13 46 | 21 38 | 15 22 | 1 33 | 21 2 | 21 39 |
| 16 | W | 7 34 34 | 23 11 2 | 21 28 | 0 29 | 2 48 | 17 20 | 21 40 |
| 17 | Th | 7 38 30 | 24 8 19 | 21 18 | 15 39 | 3 52 | 12 28 | 21 41 |
| 18 | F | 7 42 27 | 25 5 37 | 21 8 | 0 w 42 | 4 39 | 6 53 | 21 41 |
| 19 | S | 7 46 24 | 26 2 54 | 20 58 | 15 30 | 5 6 | 1 1 | 21 42 |
| 20 | S | 7 50 20 | 27 0 12 | 20 47 | 29 56 | 5 13 | 4 S 46 | 21 43 |
| 21 | M | 7 54 17 | 27 57 31 | 20 35 | 13 57 | 5 1 | 10 8 | 21 44 |
| 22 | Tu | 7 58 14 | 28 54 49 | 20 24 | 27 32 | 4 33 | 14 51 | 21 45 |
| 23 | W | 8 2 11 | 29 52 8 | 20 12 | 10 m 43 | 3 50 | 18 42 | 21 46 |
| 24 | Th | 8 6 7 | 0 49 27 | 20 0 | 23 51 | 2 57 | 21 32 | 21 47 |
| 25 | F | 8 10 3 | 1 46 47 | 19 47 | 6 f 2 | 1 57 | 23 16 | 21 49 |
| 26 | S | 8 14 0 | 2 44 7 | 19 34 | 18 19 | 0 53 | 23 49 | 21 50 |
| 27 | S | 8 17 57 | 3 41 28 | 19 21 | 0 w 24 | 0 N 13 | 23 15 | 21 51 |
| 28 | M | 8 21 53 | 4 38 49 | 19 7 | 12 22 | 1 18 | 21 36 | 21 53 |
| 29 | Tu | 8 25 49 | 5 36 10 | 18 53 | 24 16 | 2 18 | 19 1 | 21 54 |
| 30 | W | 8 29 46 | 6 33 33 | 18 39 | 6 m 6 | 3 12 | 15 39 | 21 56 |
| 31 | Th | 8 33 42 | 7 30 56 | 18 25 | 17 57 | 3 58 | 11 41 | 21 58 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 S 2 | 21 N 31 | 2 S 28 | 17 N 3 | 1 N 32 | 24 N 27 | 27 † 38 |
| 4 | 0 0 | 21 52 | 2 24 | 17 52 | 1 45 | 23 56 | 27 28 |
| 7 | 0 N 2 | 22 13 | 2 19 | 18 36 | 1 51 | 23 3 | 27 19 |
| 10 | 0 4 | 22 33 | 2 13 | 19 16 | 1 50 | 21 53 | 27 9 |
| 13 | 0 6 | 22 48 | 2 7 | 19 55 | 1 44 | 20 28 | 27 0 |
| 16 | 0 8 | 23 8 | 2 0 | 20 26 | 1 33 | 18 53 | 26 50 |
| 19 | 0 11 | 23 15 | 1 52 | 20 58 | 1 17 | 17 9 | 26 41 |
| 22 | 0 13 | 23 26 | 1 44 | 21 23 | 0 57 | 15 21 | 26 31 |
| 25 | 0 15 | 23 34 | 1 36 | 21 46 | 0 33 | 13 30 | 26 21 |
| 28 | 0 17 | 23 40 | 1 27 | 21 55 | 0 7 | 11 38 | 26 12 |
| 31 | 0 19 | 23 44 | 1 18 | 22 9 | 0 S 22 | 9 48 | 26 2 |

| D | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual | Lunar Aspects. | | | | | | |
|----|-------|-------|-------|-------|-------|-------|--------|----------------|---|---|---|---|---|---|
| Y | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 21 46 | 2 38 | 7 23 | 26 43 | 12 0 | 0 | | | | | | | | ♈ |
| 2 | 21 47 | 2 30 | 8 5 | 27 50 | 14 9 | 9 | | | ☐ | ☐ | | | | ♈ |
| 3 | 21 48 | 2 23 | 8 47 | 28 57 | 16 16 | 16 | | | | | | | ♈ | |
| 4 | 21 49 | 2 15 | 9 29 | 0 4 | 18 22 | 22 | | | ♈ | ♈ | | | | |
| 5 | 21 50 | 2 8 | 10 11 | 1 11 | 20 26 | 26 | | | | | | * | | ☐ |
| 6 | 21 51 | 2 0 | 10 53 | 2 18 | 22 29 | 29 | ♈ ☐ ☐ | ♈ | | | | | ☐ | |
| 7 | 21 52 | 1 53 | 11 34 | 3 26 | 24 30 | 30 | | | | | | ☐ | | ♈ |
| 8 | 21 53 | 1 45 | 12 16 | 4 34 | 26 30 | 30 | | | | | | | * | * |
| 9 | 21 55 | 1 38 | 12 57 | 5 42 | 28 28 | 28 | | | ☐ | ♈ | ♈ | | | |
| 10 | 21 56 | 1 31 | 13 38 | 6 50 | 0 24 | 24 | | | | | | ♈ | | ☐ |
| 11 | 21 58 | 1 24 | 14 20 | 7 58 | 2 18 | 18 | | * | | | | | | |
| 12 | 21 59 | 1 17 | 15 1 | 9 6 | 4 10 | 10 | | | | | | | | * |
| 13 | 22 1 | 1 10 | 15 42 | 10 14 | 6 0 | 0 | | | ♈ | ♈ | | ♈ | ♈ | |
| 14 | 22 3 | 1 3 | 16 24 | 11 23 | 7 48 | 48 | ☉ ☐ ☐ | ☉ | | | | ♈ | | |
| 15 | 22 5 | 0 57 | 17 5 | 12 31 | 9 35 | 35 | ☉ ☐ ☐ | ☉ | ☐ | ☐ | | | | |
| 16 | 22 7 | 0 50 | 17 46 | 13 40 | 11 20 | 20 | | | | | | | | |
| 17 | 22 9 | 0 44 | 18 27 | 14 49 | 13 3 | 3 | | | * | * | | | * | ♈ |
| 18 | 22 11 | 0 37 | 19 8 | 15 58 | 14 44 | 44 | | | | | | ♈ | | |
| 19 | 22 13 | 0 31 | 19 49 | 17 7 | 16 24 | 24 | | | | | | | ☐ | ☐ |
| 20 | 22 15 | 0 25 | 20 30 | 18 16 | 18 2 | 2 | | * | | | | ☐ | | |
| 21 | 22 17 | 0 19 | 21 11 | 19 25 | 19 37 | 37 | ♈ Δ h | | | | | | | ♈ |
| 22 | 22 20 | 0 13 | 21 51 | 20 34 | 21 10 | 10 | ♈ * h | ☐ | ♈ | ♈ | * | ♈ | | * |
| 23 | 22 23 | 0 7 | 22 32 | 21 43 | 22 41 | 41 | ♈ Δ h | | | | | | | |
| 24 | 22 26 | 0 1 | 23 13 | 22 52 | 24 11 | 11 | ♈ Δ h | | | | | | | ☐ |
| 25 | 22 29 | † 55 | 23 53 | 24 2 | 25 40 | 40 | ♈ Δ h | ♈ | | | | | | |
| 26 | 22 32 | 29 50 | 24 34 | 25 11 | 27 6 | 6 | | | * | * | | | | |
| 27 | 22 35 | 29 45 | 25 14 | 26 21 | 28 30 | 30 | ♈ ☉ ♈ | | | | ♈ | ♈ | ♈ | ♈ |
| 28 | 22 38 | 29 40 | 25 54 | 27 31 | 29 52 | 52 | ♈ * ♈ | | | | | | | |
| 29 | 22 41 | 29 35 | 26 35 | 28 41 | 1 12 | 12 | ♈ Δ h | | ☐ | ☐ | | | | |
| 30 | 22 44 | 29 30 | 27 15 | 29 51 | 2 30 | 30 | | ♈ | | | | | | |
| 31 | 22 47 | 29 25 | 27 55 | 1 1 | 3 47 | 47 | | | ♈ | ♈ | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 34 | 8 8 3 | 2 N 23 | 6 5 39 | 0 N 3 | 23 5 24 |
| 4 | 15 | 47 | 0 34 | 8 5 | 2 25 | 6 43 | 0 3 | 23 25 |
| 7 | 15 | 48 | 0 34 | 8 7 | 2 24 | 6 48 | 0 2 | 23 26 |
| 10 | 15 | 48 | 0 34 | 8 10 | 2 24 | 6 53 | 0 2 | 23 26 |
| 13 | 15 | 49 | 0 34 | 8 13 | 2 23 | 6 59 | 0 2 | 23 26 |
| 16 | 15 | 49 | 0 34 | 8 15 | 2 23 | 7 5 | 0 2 | 23 26 |
| 19 | 15 | 50 | 0 34 | 8 17 | 2 22 | 7 10 | 0 1 | 23 26 |
| 22 | 15 | 50 | 0 33 | 8 19 | 2 21 | 7 16 | 0 1 | 23 27 |
| 25 | 15 | 51 | 0 33 | 8 23 | 2 21 | 7 22 | 0 0 | 23 27 |
| 28 | 15 | 51 | 0 33 | 8 25 | 2 20 | 7 28 | 0 0 | 23 28 |
| 31 | 15 | 52 | 0 33 | 8 28 | 2 20 | 7 34 | 0 0 | 23 28 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | F | 8 37 39 | 8 2 23 | 21 | 16 N 10 | 29 m 49 | 4 N 34 | 7 5 17 |
| 2 | S | 8 41 38 | 9 25 46 | 17 | 55 | 11 x 43 | 4 57 | 2 36 |
| 3 | S | 8 45 33 | 10 23 13 | 17 | 39 | 23 43 | 5 8 | 2 N 13 |
| 4 | M | 8 49 29 | 11 20 40 | 17 | 24 | 5 r 51 | 5 5 | 7 0 |
| 5 | Tu | 8 53 26 | 12 18 9 | 17 | 8 | 18 10 | 4 48 | 11 34 |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | Tu | 10 16 13 | 2 30 22 | 10 | 36 | 3 m 6 | 3 2 | 16 32 |
| 27 | W | 10 20 10 | 3 28 20 | 10 | 15 | 14 55 | 3 48 | 12 44 |
| 28 | Th | 10 24 6 | 4 26 18 | 9 | 54 | 26 47 | 4 24 | 8 27 |
| 29 | F | 10 28 2 | 5 24 18 | 9 | 33 | 8 x 44 | 4 48 | 3 51 |
| 30 | S | 10 31 59 | 6 22 20 | 9 | 11 | 20 45 | 5 0 | 0 N 56 |
| 31 | S | 10 35 56 | 7 20 24 | 8 | 49 | 3 r 54 | 4 59 | 5 43 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 20 | 23 N 48 | 1 S 16 | 22 N 11 | 0 S 32 | 9 N 12 | 25 159 |
| 4 | 0 22 | 23 50 | 1 7 | 22 11 | 1 3 | 7 26 | 25 50 |
| 7 | 0 25 | 23 51 | 0 57 | 22 11 | 1 35 | 5 45 | 25 40 |
| 10 | 0 27 | 23 49 | 0 48 | 22 2 | 2 9 | 4 13 | 25 31 |
| 13 | 0 29 | 23 48 | 0 38 | 21 50 | 2 42 | 2 52 | 25 21 |
| 15 | 0 31 | 23 44 | 0 29 | 21 28 | 3 13 | 1 45 | 25 12 |
| 19 | 0 34 | 23 37 | 0 19 | 21 7 | 3 43 | 0 55 | 25 2 |
| 22 | 0 37 | 23 30 | 0 10 | 20 34 | 4 8 | 0 29 | 24 53 |
| 25 | 0 39 | 23 20 | 0 1 | 20 1 | 4 24 | 0 30 | 24 43 |
| 28 | 0 41 | 23 8 | 0 N 9 | 19 16 | 4 30 | 1 2 | 24 34 |
| 31 | 0 44 | 22 56 | 0 17 | 18 37 | 4 20 | 2 5 | 24 24 |

| D
M | h | | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 22 51 | 29 121 | 28 135 | 2 11 | 5 0 | | | | | | | | | * | Δ | Δ |
| 2 | 22 54 | 29 17 | 29 15 | 3 21 | 6 13 | | | | | | | | | | | ♌ |
| 3 | 22 58 | 29 13 | 29 55 | 4 32 | 7 23 | | | | | | | | | □ | | |
| 4 | 23 2 | 29 9 | 0 35 | 5 42 | 8 29 | | | | | Δ | ♌ | ♌ | | | □ | □ |
| 5 | 23 6 | 29 5 | 1 15 | 6 53 | 9 33 | | | | | | ♌ | ♌ | | | | |
| 6 | 23 10 | 29 1 | 1 54 | 8 31 | 10 35 | | | | | | | | | Δ | * | |
| 7 | 23 14 | 28 57 | 2 34 | 9 14 | 11 35 | | | | | □ | | | | | * | Δ |
| 8 | 23 18 | 28 54 | 3 14 | 10 24 | 12 32 | | | | | | | | | | | |
| 9 | 23 22 | 28 51 | 3 53 | 11 35 | 13 25 | | | | | * | | | | | | □ |
| 10 | 23 26 | 28 48 | 4 33 | 12 46 | 14 15 | | | | | | Δ | Δ | ♌ | | | |
| 11 | 23 30 | 28 45 | 5 12 | 13 57 | 15 2 | | | | | | | | | ♌ | ♌ | * |
| 12 | 23 34 | 28 42 | 5 52 | 15 8 | 15 46 | | | | | | □ | □ | | | | |
| 13 | 23 39 | 28 40 | 6 31 | 16 19 | 16 27 | | | | | | | | | | | |
| 14 | 23 44 | 28 38 | 7 10 | 17 30 | 17 4 | | | | | ♌ | * | * | Δ | | | |
| 15 | 23 48 | 28 36 | 7 49 | 18 41 | 17 37 | | | | | | | | | * | | |
| 16 | 23 53 | 28 34 | 8 28 | 19 53 | 18 5 | ☉ * ♈ | | | | | | | □ | | * | ♌ |
| 17 | 23 57 | 28 32 | 9 7 | 21 4 | 18 29 | ☉ * ♈ | | | | | | | | □ | | ♌ |
| 18 | 24 2 | 28 30 | 9 46 | 22 15 | 18 48 | ♀ ♈ | | | | * | ♌ | ♌ | * | | □ | |
| 19 | 24 7 | 28 29 | 10 25 | 23 27 | 19 2 | | | | | | | | | Δ | | |
| 20 | 24 12 | 28 28 | 11 4 | 24 39 | 19 11 | ♀ ♈ | | | | | | | | | Δ | * |
| 21 | 24 17 | 28 27 | 11 43 | 25 51 | 19 14 | | | | | □ | | | | | | |
| 22 | 24 22 | 28 26 | 12 22 | 27 3 | 19 12 | ☉ Δ ♈ | | | | | | | | | | □ |
| 23 | 24 27 | 28 25 | 13 1 | 28 15 | 19 4 | | | | | Δ | * | * | ♌ | | | |
| 24 | 24 32 | 28 25 | 13 40 | 29 27 | 18 50 | | | | | | | | | | ♌ | |
| 25 | 24 38 | 28 25 | 14 18 | 0 39 | 18 30 | | | | | | □ | □ | | | | Δ |
| 26 | 24 43 | 28 25 | 14 57 | 1 51 | 18 4 | | | | | | | | | | | ♌ |
| 27 | 24 48 | 28 25 | 15 35 | 3 17 | 18 32 | | | | | | | | | | | |
| 28 | 24 54 | 28 25 | 16 13 | 4 15 | 18 54 | | | | | | Δ | Δ | * | | | |
| 29 | 24 59 | 28 26 | 16 51 | 5 28 | 18 11 | ♀ * ♈ | | | | ♌ | | | | | | |
| 30 | 25 5 | 28 27 | 17 29 | 6 40 | 15 24 | | | | | | | | | | Δ | ♌ |
| 31 | 25 10 | 28 28 | 18 7 | 7 52 | 14 33 | | | | | | | | □ | | Δ | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 15 | 54 | 0 N 33 | 8 S 31 | 2 N 19 | 7 S 37 | 0 S 1 | 23 S 28 |
| 4 | 15 | 54 | 0 33 | 8 35 | 2 19 | 7 44 | 0 1 | 23 29 |
| 7 | 15 | 55 | 0 33 | 8 39 | 2 18 | 7 51 | 0 1 | 23 29 |
| 10 | 15 | 56 | 0 33 | 8 43 | 2 18 | 7 58 | 0 1 | 23 30 |
| 13 | 15 | 57 | 0 33 | 8 47 | 2 17 | 8 5 | 0 2 | 23 30 |
| 16 | 15 | 57 | 0 33 | 8 50 | 2 17 | 8 13 | 0 2 | 23 31 |
| 19 | 15 | 58 | 0 33 | 8 53 | 2 17 | 8 20 | 0 3 | 23 31 |
| 22 | 15 | 59 | 0 32 | 8 55 | 2 17 | 8 27 | 0 3 | 23 31 |
| 25 | 16 | 0 | 0 32 | 8 59 | 2 16 | 8 35 | 0 3 | 23 31 |
| 28 | 16 | 0 | 0 32 | 9 3 | 2 16 | 8 43 | 0 3 | 23 32 |

| D
M | D
W | Universal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|--------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 10 39 52 | 8 w 18 29 | 8 N 28 | 15 r 11 | 4 N 43 | 10 N 20 | 23 12 |
| 2 | Tu | 10 43 48 | 9 16 36 | 8 6 | 27 37 | 4 14 | 14 35 | 23 14 |
| 3 | W | 10 47 44 | 10 14 46 | 7 44 | 10 15 | 3 33 | 18 16 | 23 17 |
| 4 | Th | 10 51 42 | 11 12 57 | 7 22 | 23 7 | 2 39 | 21 8 | 23 20 |
| 5 | F | 10 55 38 | 12 11 10 | 7 0 | 6 16 | 1 36 | 22 58 | 23 23 |
| 6 | S | 10 59 34 | 13 9 25 | 6 37 | 19 45 | 0 37 | 23 31 | 23 26 |
| 7 | S | 11 3 31 | 14 7 43 | 6 15 | 3 36 | 0 S 47 | 23 38 | 23 30 |
| 8 | M | 11 7 28 | 15 6 3 | 5 53 | 17 50 | 1 59 | 20 19 | 23 33 |
| 9 | Tu | 11 11 24 | 16 4 24 | 5 30 | 2 27 | 3 5 | 16 38 | 23 37 |
| 10 | W | 11 15 20 | 17 2 48 | 6 7 | 17 21 | 4 0 | 11 50 | 23 40 |
| 11 | Th | 11 19 16 | 18 1 14 | 4 44 | 2 27 | 4 39 | 6 16 | 23 43 |
| 12 | | | 18 59 41 | 4 22 | 17 34 | 4 59 | 0 20 | 23 46 |
| 13 | | | 19 58 11 | 3 59 | 2 32 | 4 57 | 5 S 33 | 23 50 |
| 14 | | | 20 56 42 | 3 36 | 17 12 | 4 36 | 11 1 | 23 54 |
| 15 | | | 21 55 16 | 3 12 | 1 27 | 3 59 | 15 43 | 23 57 |
| 16 | | | 22 53 51 | 2 49 | 15 13 | 3 8 | 19 24 | 24 0 |
| 17 | | | 23 52 27 | 2 26 | 28 30 | 2 8 | 21 56 | 24 3 |
| 18 | | | 24 51 6 | 2 3 | 11 20 | 1 4 | 23 13 | 24 6 |
| 19 | | | 25 49 46 | 1 40 | 23 48 | 0 N 1 | 23 18 | 24 10 |
| 20 | | | 26 48 27 | 1 16 | 5 w 58 | 1 5 | 23 15 | 24 13 |
| 21 | S | 11 58 43 | 27 47 11 | 0 53 | 17 57 | 2 5 | 20 11 | 24 17 |
| 22 | M | 12 2 38 | 28 45 56 | 0 29 | 29 48 | 2 59 | 17 17 | 24 20 |
| 23 | Tu | 12 6 35 | 29 44 43 | 0 6 | 11 m 38 | 3 45 | 13 42 | 24 24 |
| 24 | W | 12 10 32 | 0 43 31 | 0 S 17 | 23 29 | 4 21 | 9 36 | 24 27 |
| 25 | Th | 12 14 28 | 1 42 21 | 0 41 | 5 25 | 4 46 | 5 6 | 24 31 |
| 26 | F | 12 18 25 | 2 41 14 | 1 4 | 17 28 | 4 59 | 0 22 | 24 34 |
| 27 | S | 12 22 21 | 3 40 8 | 1 28 | 29 40 | 4 58 | 4 N 25 | 24 38 |
| 28 | S | 12 26 18 | 4 39 4 | 1 51 | 12 r 1 | 4 43 | 9 6 | 24 42 |
| 29 | M | 12 30 15 | 5 38 2 | 2 14 | 24 32 | 4 14 | 13 27 | 24 45 |
| 30 | Tu | 12 34 12 | 6 37 2 | 2 38 | 7 14 | 3 33 | 17 17 | 24 48 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 44 | 22 N 53 | 0 N 20 | 18 N 19 | 4 S 14 | 2 N 32 | 24 21 |
| 4 | 0 48 | 22 40 | 0 28 | 17 23 | 3 41 | 4 8 | 24 11 |
| 7 | 0 49 | 22 23 | 0 36 | 16 32 | 2 54 | 5 53 | 24 2 |
| 10 | 0 52 | 22 8 | 0 43 | 15 30 | 1 58 | 7 28 | 23 52 |
| 13 | 0 54 | 21 49 | 0 51 | 14 27 | 0 59 | 8 38 | 23 43 |
| 16 | 0 56 | 21 29 | 0 58 | 13 16 | 0 5 | 9 14 | 23 33 |
| 19 | 0 59 | 21 9 | 1 3 | 12 7 | 0 N 40 | 9 11 | 23 24 |
| 22 | 1 2 | 20 47 | 1 8 | 10 55 | 1 14 | 8 31 | 23 14 |
| 25 | 1 4 | 20 25 | 1 14 | 9 35 | 1 37 | 7 17 | 23 5 |
| 28 | 1 6 | 20 4 | 1 19 | 8 27 | 1 50 | 5 39 | 22 55 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|----------|----------|----------|--------|-------|-------|--------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 25 16 28 | 29 18 45 | 9 5 13 | 8 8 50 | | | | | | | | | |
| 2 | 25 21 28 | 30 19 23 | 10 17 12 | 8 1 43 | | | | | | | | | |
| 3 | 25 27 28 | 32 20 11 | 11 30 11 | 45 | | | | Δ | ♂ | ♂ | Δ | | |
| 4 | 25 33 28 | 34 20 39 | 12 43 10 | 43 | ☉ ♂ ♀ | | | | | | * | | Δ |
| 5 | 25 39 28 | 36 21 16 | 13 55 9 | 44 | | | | ☐ | | | | | ☐ |
| 6 | 25 45 28 | 38 21 54 | 16 8 8 | 50 | | | | | Δ | Δ | | * | |
| 7 | 25 51 28 | 40 22 31 | 16 21 8 | 1 | | | | | | | ♂ | | * |
| 8 | 25 57 28 | 42 23 9 | 17 34 7 | 17 | | | | * | ☐ | | ♂ | | |
| 9 | 26 3 28 | 45 23 46 | 18 47 6 | 38 | ♂ ☐ ♀ | | | | | ☐ | | ♂ | |
| 10 | 26 9 28 | 48 24 23 | 20 0 6 | 5 | | | | | * | | | ♂ | |
| 11 | 26 15 28 | 51 25 0 | 21 13 5 | 40 | | | | | | * | Δ | | ♂ |
| 12 | 26 21 28 | 54 25 37 | 22 26 5 | 25 | | | | ♂ | | | | | |
| 13 | 26 28 28 | 57 26 14 | 23 39 5 | D 20 | ♂ ☐ ♀ | | | | | | ☐ | | |
| 14 | 26 34 29 | 1 26 51 | 24 52 5 | 24 | ♀ * ♀ | | | | ♂ | | | | |
| 15 | 26 40 29 | 5 27 28 | 26 6 5 | 37 | ♀ * ♀ | | | | | ♂ | * | ☐ | * |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 82 | 9 S 8 | 2 N 15 | 8 S 50 | 0 S 4 | 23 S 32 |
| 4 | 16 | 1 | 0 32 | 9 13 | 2 15 | 8 57 | 0 4 | 23 32 |
| 7 | 16 | 2 | 0 32 | 9 17 | 2 15 | 9 5 | 0 5 | 23 32 |
| 10 | 16 | 3 | 0 32 | 9 22 | 2 15 | 9 13 | 0 5 | 23 32 |
| 13 | 16 | 4 | 0 32 | 9 26 | 2 15 | 9 21 | 0 5 | 23 32 |
| 16 | 16 | 5 | 0 32 | 9 30 | 2 15 | 9 29 | 0 5 | 23 32 |
| 19 | 16 | 5 | 0 32 | 9 33 | 2 14 | 9 36 | 0 6 | 23 32 |
| 22 | 16 | 6 | 0 32 | 9 36 | 2 14 | 9 43 | 0 6 | 23 31 |
| 25 | 16 | 7 | 0 32 | 9 40 | 2 14 | 9 51 | 0 6 | 23 31 |
| 28 | 16 | 7 | 0 32 | 9 43 | 2 14 | 9 58 | 0 6 | 23 31 |
| 31 | 16 | 8 | 0 32 | 9 47 | 2 14 | 10 7 | 0 7 | 23 30 |

| D
M | D
W | Sidereal
Time. | | ☉
Long. | | ☉
Declin. | | ☽
Long. | | ☽
Lat. | | ☽
Declin. | | ♃
Long. | |
|--------|--------|-------------------|----|------------|----|--------------|----|------------|--------|-----------|---------|--------------|----|------------|---|
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | W | 12 | 38 | 8 | 7 | 36 | 6 | 3 S 1 | 20 8 6 | 2 N 40 | 20 N 21 | 24 | 52 | | |
| 2 | Th | 12 | 42 | 4 | 8 | 35 | 10 | 3 24 | 3 11 9 | 1 37 | 22 24 | 24 | 55 | | |
| 3 | F | 12 | 46 | 1 | 9 | 34 | 11 | 3 48 | 16 26 | 0 29 | 23 15 | 24 | 58 | | |
| 4 | S | 12 | 49 | 57 | 10 | 33 | 27 | 4 11 | 29 56 | 0 S 43 | 22 45 | 25 | 1 | | |
| 5 | S | 12 | 53 | 54 | 11 | 32 | 39 | 4 34 | 13 43 | 1 54 | 20 52 | 25 | 5 | | |
| 6 | M | 12 | 57 | 51 | 12 | 31 | 53 | 4 57 | 27 46 | 2 59 | 17 43 | 25 | 9 | | |
| 7 | Tu | 13 | 1 | 47 | 13 | 31 | 10 | 5 20 | 12 5 | 3 54 | 13 26 | 25 | 13 | | |
| 8 | W | 13 | 5 | 44 | 14 | 30 | 29 | 5 43 | 26 39 | 4 35 | 8 20 | 25 | 17 | | |
| 9 | Th | 13 | 9 | 40 | 15 | 29 | 50 | 6 6 | 11 22 | 4 58 | 2 43 | 25 | 21 | | |
| 10 | F | 13 | 13 | 36 | 16 | 29 | 14 | 6 29 | 26 8 | 5 2 | 3 S 5 | 25 | 25 | | |
| 11 | S | 13 | 17 | 33 | 17 | 28 | 40 | 6 52 | 10 48 | 4 46 | 8 39 | 25 | 29 | | |
| 12 | S | 13 | 21 | 30 | 18 | 28 | 8 | 7 15 | 25 16 | 4 11 | 13 41 | 25 | 33 | | |
| 13 | M | 13 | 25 | 27 | 19 | 27 | 38 | 7 37 | 9 24 | 3 22 | 17 50 | 25 | 37 | | |
| 14 | Tu | 13 | 29 | 24 | 20 | 27 | 10 | 8 0 | 23 7 | 2 22 | 20 52 | 25 | 41 | | |
| 15 | W | 13 | 33 | 20 | 21 | 26 | 44 | 8 22 | 6 25 | 1 16 | 22 39 | 25 | 45 | | |
| 16 | Th | 13 | 37 | 16 | 22 | 26 | 20 | 8 44 | 19 17 | 0 8 | 23 10 | 25 | 49 | | |
| 17 | F | 13 | 41 | 13 | 23 | 25 | 57 | 9 7 | 1 48 | 0 N 59 | 22 28 | 25 | 52 | | |
| 18 | S | 13 | 45 | 10 | 24 | 25 | 37 | 9 29 | 14 1 | 2 120 | 43 | 25 | 55 | | |
| 19 | S | 13 | 49 | 6 | 25 | 25 | 18 | 9 50 | 26 2 | 2 58 | 18 3 | 25 | 59 | | |
| 20 | M | 13 | 53 | 3 | 26 | 25 | 1 | 10 12 | 7 55 | 3 45 | 14 41 | 26 | 3 | | |
| 21 | Tu | 13 | 56 | 59 | 27 | 24 | 45 | 10 34 | 19 45 | 4 23 | 10 44 | 26 | 7 | | |
| 22 | W | 14 | 0 | 55 | 28 | 24 | 31 | 10 55 | 1 38 | 4 50 | 6 23 | 26 | 11 | | |
| 23 | Th | 14 | 4 | 52 | 29 | 24 | 19 | 11 16 | 13 38 | 5 4 | 1 46 | 26 | 14 | | |
| 24 | F | 14 | 8 | 48 | 0 | m 24 | 9 | 11 37 | 25 47 | 5 5 | 2 N 59 | 26 | 18 | | |
| 25 | S | 14 | 12 | 45 | 1 | 24 | 1 | 11 58 | 8 8 | 4 52 | 7 43 | 26 | 22 | | |
| 26 | S | 14 | 16 | 42 | 2 | 23 | 54 | 12 19 | 20 43 | 4 24 | 12 11 | 26 | 25 | | |
| 27 | M | 14 | 20 | 37 | 3 | 23 | 49 | 12 40 | 3 32 | 3 43 | 16 12 | 26 | 29 | | |
| 28 | Tu | 14 | 24 | 33 | 4 | 23 | 47 | 13 0 | 16 33 | 2 50 | 19 31 | 26 | 33 | | |
| 29 | W | 14 | 28 | 29 | 5 | 23 | 46 | 13 20 | 29 47 | 1 46 | 21 51 | 26 | 37 | | |
| 30 | Th | 14 | 32 | 25 | 6 | 23 | 47 | 13 40 | 13 13 | 0 35 | 22 59 | 26 | 41 | | |
| 31 | F | 14 | 36 | 21 | 7 | 23 | 51 | 14 0 | 26 48 | 0 S 38 | 22 47 | 26 | 44 | | |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 9 | 19 N 38 | 1 N 23 | 6 N 53 | 1 N 54 | 3 N 42 | 22 45 |
| 4 | 1 12 | 19 13 | 1 25 | 6 28 | 1 51 | 1 38 | 22 56 |
| 7 | 1 15 | 18 47 | 1 27 | 4 2 | 1 43 | 0 S 41 | 22 26 |
| 10 | 1 18 | 18 21 | 1 29 | 2 35 | 1 30 | 2 57 | 22 16 |
| 13 | 1 20 | 17 54 | 1 31 | 1 8 | 1 15 | 5 18 | 22 7 |
| 16 | 1 23 | 17 30 | 1 32 | 0 53 | 0 57 | 7 26 | 21 57 |
| 19 | 1 26 | 16 59 | 1 31 | 1 S 50 | 0 38 | 9 35 | 21 48 |
| 22 | 1 29 | 16 31 | 1 30 | 3 14 | 0 19 | 11 39 | 21 38 |
| 25 | 1 32 | 16 2 | 1 29 | 4 47 | 0 S 3 | 13 37 | 21 29 |
| 28 | 1 35 | 15 31 | 1 27 | 6 20 | 0 23 | 15 29 | 21 19 |
| 31 | 1 38 | 15 0 | 1 24 | 7 53 | 0 42 | 17 13 | 21 10 |

| D
M | ☿ | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ |
| 1 | 28 28 | 0 26 | 7 2 | 6 15 | 25 46 | 25 7 | | | | | | | Δ | Δ |
| 2 | 28 35 | 0 33 | 7 42 | 17 0 | 26 51 | | | Δ | | | | * | | |
| 3 | 28 42 | 0 40 | 8 17 | 18 14 | 28 36 | | | | | | | | □ | |
| 4 | 28 49 | 0 47 | 8 52 | 19 29 | 0 22 | | | | Δ | Δ | ♂ | | | ■ |
| 6 | 28 56 | 0 54 | 9 27 | 20 43 | 2 9 | ♂ □ ♀ | | □ | | | | | | |

| | | | | | | |
|----|-------|------|-------|------|----|--|
| 6 | 29 3 | 1 10 | 2 21 | 67 | | |
| 7 | 29 10 | 1 8 | 10 37 | 23 | 12 | |
| 8 | 29 17 | 1 16 | 11 12 | 24 | 26 | |
| 9 | 29 24 | 1 23 | 11 46 | 25 | 31 | |
| 10 | 29 31 | 1 31 | 12 21 | 26 | 55 | |
| 11 | 29 38 | 1 38 | 12 55 | 28 | 10 | |
| 12 | 29 45 | 1 46 | 13 30 | 29 | 24 | |
| 13 | 29 53 | 1 54 | 14 4 | 0 39 | | |
| 14 | 0 0 | 2 2 | 14 38 | 1 | 53 | |
| 15 | 0 7 | 2 11 | 15 12 | 3 | 8 | |

| | | | | | | | | | | | | | |
|----|------|------|-------|-------|-------|-------|---|---|---|---|---|---|---|
| 16 | 0 14 | 2 19 | 15 46 | 4 23 | 21 19 | | * | | | | Δ | | * |
| 17 | 0 21 | 2 28 | 16 20 | 5 37 | 23 1 | | | ■ | * | ♂ | | □ | |
| 18 | 0 28 | 2 36 | 16 54 | 6 52 | 24 43 | ☉ ♂ ♀ | | □ | □ | □ | | | □ |
| 19 | 0 36 | 2 45 | 17 27 | 8 7 | 26 32 | ☉ ♂ ♀ | | | | | | | □ |
| 20 | 0 43 | 2 54 | 18 1 | 9 22 | 28 1 | ♀ ♂ ♀ | | | | | | Δ | |
| 21 | 0 50 | | | 10 37 | 29 40 | | | | | | | ♂ | |
| 22 | 0 58 | | | 11 52 | 1 19 | ♀ ♂ ♀ | Δ | Δ | ■ | * | | | Δ |
| 23 | 1 5 | | | 13 7 | 2 57 | ♀ * ♀ | | | | | | | |
| 24 | 1 12 | | | 14 22 | 4 34 | | | | | | | | |
| 25 | 1 20 | | | 15 37 | 6 11 | ☉ ♂ ♀ | | | | | □ | | |
| 26 | 1 27 | | | 16 52 | 7 47 | | | ♂ | ♂ | | | Δ | ♂ |
| 27 | 1 34 | | | 18 7 | 9 23 | | | ♂ | | ♂ | Δ | | |
| 28 | 1 41 | | | 19 22 | 10 59 | ☉ * ♀ | | | | | | □ | ♂ |
| 29 | 1 48 | | | 20 37 | 12 34 | | | | | | | | |
| 30 | 1 55 | | | 21 52 | 14 6 | | | | | | | | |
| 31 | 2 2 | | | 23 7 | 15 43 | | | Δ | Δ | | * | Δ | |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 32 | 9 S 51 | 2 N 14 | 10 S 8 | 0 S 7 | 23 S 30 |
| 4 | 16 | 10 | 0 32 | 9 55 | 2 14 | 10 17 | 0 7 | 23 29 |
| 7 | 16 | 11 | 0 32 | 9 59 | 2 15 | 10 23 | 0 8 | 23 27 |
| 10 | 16 | 12 | 0 32 | 10 4 | 2 15 | 10 29 | 0 8 | 23 26 |
| 13 | 16 | 12 | 0 32 | 10 7 | 2 15 | 10 37 | 0 8 | 23 25 |
| 16 | 16 | 13 | 0 32 | 10 10 | 2 15 | 10 44 | 0 8 | 23 23 |
| 19 | 16 | 14 | 0 32 | 10 13 | 2 15 | 10 51 | 0 9 | 23 21 |
| 22 | 16 | 14 | 0 32 | 10 16 | 2 15 | 10 57 | 0 9 | 23 19 |
| 25 | 16 | 15 | 0 32 | 10 20 | 2 16 | 11 4 | 0 9 | 23 17 |
| 28 | 16 | 15 | 0 32 | 10 24 | 2 16 | 11 11 | 0 9 | 23 15 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ☽
Long. | | | ☽
Lat. | | | ☽
Declin | | | ♂
Long. | | |
|--------|--------|-------------------|----|----|------------|---|-------|-------------|---|----|------------|----|----|-----------|---|----|-------------|---|----|------------|----|----|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | S | 14 | 40 | 17 | 8 | m | 23 56 | 14 | S | 19 | 10 | 34 | 34 | 1 | S | 51 | 21 | N | 12 | 26 | 48 | 48 |
| 2 | S | 14 | 44 | 13 | 9 | | 24 4 | 14 | | 38 | 24 | 28 | 28 | 2 | | 57 | 18 | | 20 | 26 | | 51 |
| 3 | M | 14 | 48 | 11 | 10 | | 24 14 | 14 | | 57 | 8 | 31 | 31 | 3 | | 54 | 14 | | 23 | 26 | | 54 |
| 4 | Tu | 14 | 52 | 8 | 11 | | 24 26 | 15 | | 16 | 22 | 41 | 41 | 4 | | 37 | 9 | | 36 | 26 | | 57 |
| 5 | W | 14 | 56 | 4 | 12 | | 24 40 | 15 | | 35 | 6 | m | 57 | 5 | | 3 | 4 | | 16 | 27 | | 1 |
| 6 | Th | 15 | 0 | 1 | 13 | | 24 56 | 15 | | 53 | 21 | 16 | 16 | 5 | | 11 | 1 | S | 18 | 27 | | 5 |
| 7 | F | 15 | 3 | 57 | 14 | | 25 15 | 16 | | 11 | 5 | 34 | 34 | 4 | | 59 | 6 | | 47 | 27 | | 8 |
| 8 | S | 15 | 7 | 53 | 15 | | 25 35 | 16 | | 29 | 19 | 46 | 46 | 4 | | 29 | 11 | | 53 | 27 | | 12 |
| 9 | S | 15 | 11 | 51 | 16 | | 25 57 | 16 | | 46 | 3 | m | 49 | 3 | | 43 | 16 | | 18 | 27 | | 16 |
| 10 | M | 15 | 15 | 46 | 17 | | 26 21 | 17 | | 3 | 17 | 36 | 36 | 2 | | 44 | 19 | | 44 | 27 | | 20 |
| 11 | Tu | 15 | 19 | 43 | 18 | | 26 47 | 17 | | 20 | 1 | f | 6 | 1 | | 38 | 22 | | 0 | 27 | | 25 |
| 12 | W | 15 | 23 | 40 | 19 | | 27 14 | 17 | | 37 | 14 | 15 | 15 | 0 | | 27 | 22 | | 59 | 27 | | 29 |
| 13 | Th | 15 | 27 | 37 | 20 | | 27 44 | 17 | | 53 | 27 | 4 | 4 | 0 | N | 43 | 22 | | 43 | 27 | | 32 |
| 14 | F | 15 | 31 | 33 | 21 | | 28 14 | 18 | | 9 | 9 | w | 34 | 1 | | 49 | 21 | | 18 | 27 | | 36 |
| 15 | S | 15 | 35 | 29 | 22 | | 28 46 | 18 | | 25 | 21 | 49 | 49 | 2 | | 49 | 18 | | 55 | 27 | | 40 |
| 16 | S | 15 | 39 | 26 | 23 | | 29 19 | 18 | | 40 | 3 | m | 51 | 3 | | 41 | 15 | | 44 | 27 | | 43 |
| 17 | M | 15 | 43 | 23 | 24 | | 29 54 | 18 | | 55 | 15 | 45 | 45 | 4 | | 22 | 11 | | 57 | 27 | | 47 |
| 18 | Tu | 15 | 47 | 19 | 25 | | 30 30 | 19 | | 9 | 27 | 37 | 37 | 4 | | 52 | 7 | | 44 | 27 | | 51 |
| 19 | W | 15 | 51 | 15 | 26 | | 31 7 | 19 | | 24 | 9 | x | 31 | 5 | | 10 | 3 | | 13 | 27 | | 54 |
| 20 | Th | 15 | 55 | 12 | 27 | | 31 45 | 19 | | 38 | 21 | 31 | 31 | 5 | | 15 | 1 | N | 27 | 27 | | 57 |
| 21 | F | 15 | 59 | 9 | 28 | | 32 24 | 19 | | 51 | 3 | r | 43 | 5 | | 5 | 6 | | 8 | 28 | | 0 |
| 22 | S | 16 | 3 | 5 | 29 | | 33 4 | 20 | | 4 | 16 | 9 | 9 | 4 | | 41 | 10 | | 41 | 28 | | 4 |
| 23 | S | 16 | 7 | 3 | 0 | f | 33 46 | 20 | | 17 | 28 | 52 | 52 | 4 | | 3 | 14 | | 52 | 28 | | 7 |
| 24 | M | 16 | 10 | 59 | 1 | | 34 29 | 20 | | 30 | 11 | 5 | 54 | 3 | | 11 | 18 | | 27 | 28 | | 10 |
| 25 | Tu | 16 | 14 | 55 | 2 | | 35 13 | 20 | | 42 | 25 | 15 | 15 | 2 | | 8 | 21 | | 10 | 28 | | 14 |
| 26 | W | 16 | 18 | 52 | 3 | | 35 59 | 20 | | 54 | 8 | 11 | 53 | 0 | | 56 | 22 | | 44 | 28 | | 17 |
| 27 | Th | 16 | 22 | 48 | 4 | | 36 46 | 21 | | 4 | 22 | 45 | 45 | 0 | S | 20 | 22 | | 56 | 28 | | 21 |
| 28 | F | 16 | 26 | 45 | 5 | | 37 34 | 21 | | 16 | 6 | 34 | 49 | 1 | | 37 | 21 | | 41 | 28 | | 24 |
| 29 | S | 16 | 30 | 42 | 6 | | 38 24 | 21 | | 26 | 21 | 1 | 1 | 2 | | 48 | 19 | | 4 | 28 | | 27 |
| 30 | S | 16 | 34 | 38 | 7 | | 39 14 | 21 | | 36 | 5 | 34 | 17 | 3 | | 49 | 15 | | 16 | 28 | | 29 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 39 | 14 N 55 | 1 N 24 | 8 S 9 | 0 S 48 | 17 S 46 | 21 7 |
| 4 | 1 42 | 14 26 | 1 20 | 9 34 | 1 7 | 19 20 | 20 57 |
| 7 | 1 45 | 13 57 | 1 17 | 10 56 | 1 25 | 20 45 | 20 48 |
| 10 | 1 48 | 13 27 | 1 13 | 12 15 | 1 41 | 22 2 | 20 38 |
| 13 | 1 52 | 12 59 | 1 8 | 13 34 | 1 56 | 23 8 | 20 29 |
| 16 | 1 55 | 12 31 | 1 3 | 14 53 | 2 9 | 24 4 | 20 19 |
| 19 | 1 59 | 12 3 | 0 58 | 16 0 | 2 18 | 24 49 | 20 10 |
| 22 | 2 1 | 11 34 | 0 52 | 17 5 | 2 25 | 25 22 | 20 0 |
| 25 | 2 5 | 11 8 | 0 46 | 18 11 | 2 33 | 25 43 | 19 51 |
| 28 | 2 9 | 10 38 | 0 39 | 19 8 | 2 25 | 25 50 | 19 41 |

| D
M | h | z | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | | ° | ° | ° | ° | ° | ° |
| 1 | 2 10 | 4 52 | 24 30 | 24 22 | 17 16 | ♀ * ♂ | Δ | | | ♂ | | |
| 2 | 2 17 | 5 32 | 1 25 | 37 18 | 48 | | | □ | | | □ | Δ |
| 3 | 2 31 | 5 13 | 33 25 | 52 20 | 21 | ♀ ♂ ☿ | □ | * | □ | | ♂ | * |
| 4 | 2 31 | 5 21 | 4 28 | 7 21 | 53 | | * | * | * | Δ | ♂ | * |
| 5 | 2 38 | 5 34 | 36 29 | 22 33 | 25 | | * | | * | | | |
| 6 | 2 45 | 5 45 | 7 0 | 37 24 | 57 | | | | | | | ■ |
| 7 | 2 52 | 5 56 | 38 1 | 53 26 | 28 | ♀ ♂ h | | | | □ | | |
| 8 | 3 0 | 6 7 | 8 8 | 8 27 | 59 | ♂ * ☿ | | | | | | |
| 9 | 3 7 | 6 18 | 39 4 | 23 29 | 29 | ♀ □ ♂ | | ♂ | ♂ | * | ■ | ♂ |
| 10 | 3 14 | 6 30 | 9 5 | 39 0 | 1 59 | | ♂ | | | | | |
| 11 | 3 21 | 6 41 | 29 40 | 6 54 | 2 29 | ♀ * ♀ | | | | | □ | ♂ |
| 12 | 3 28 | 6 52 | 0 10 | 8 9 | 3 59 | | | | | | | |
| 13 | 3 36 | 7 4 | 0 40 | 9 25 | 5 28 | | | * | | | Δ | * |
| 14 | 3 43 | 7 15 | 1 9 | 10 40 | 6 56 | | * | | * | ♂ | | * |
| 15 | 3 50 | 7 27 | 1 38 | 11 56 | 8 24 | | * | □ | * | | | |
| 16 | 3 57 | 7 39 | 2 7 | 13 11 | 9 51 | | | | ■ | | | |
| 17 | 4 4 | 7 51 | 3 36 | 14 27 | 11 18 | | | | | | □ | * |
| 18 | 4 11 | 8 3 | 5 15 | 42 12 | 45 | | □ | Δ | | | ♂ | |
| 19 | 4 18 | 8 15 | 3 34 | 16 58 | 14 11 | | | | Δ | * | | □ |
| 20 | 4 25 | 8 27 | 4 21 | 13 13 | 15 36 | | | | | | Δ | |
| 21 | 4 32 | 8 39 | 4 30 | 19 29 | 17 0 | | Δ | | | □ | | |
| 22 | 4 38 | 8 52 | 4 58 | 20 44 | 18 24 | | | | | | | Δ |
| 23 | 4 45 | 9 4 | 5 26 | 21 59 | 19 47 | | | ♂ | ♂ | | | |
| 24 | 4 52 | 9 16 | 5 54 | 23 15 | 21 8 | | | | | Δ | Δ | |
| 25 | 4 58 | 9 29 | 6 21 | 24 30 | 22 27 | | | | | | | ♂ |
| 26 | 5 5 | 9 41 | 6 48 | 25 46 | 23 45 | | ♂ | | | | □ | |
| 27 | 5 12 | 9 54 | 7 14 | 27 1 | 25 2 | | | Δ | | | | ♂ |
| 28 | 5 18 | 10 7 | 7 41 | 28 17 | 26 17 | | | | Δ | ♂ | * | |
| 29 | 5 25 | 10 19 | 8 7 | 29 32 | 27 29 | | | □ | | | | |
| 30 | 5 32 | 10 32 | 8 34 | 0 48 | 28 38 | ♀ * ☿ | Δ | | □ | | ■ | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 32 | 10 S 28 | 2 N 16 | 11 N 16 | 0 S 10 | 23 S 11 |
| 4 | 16 | 15 | 0 32 | 10 32 | 2 16 | 11 22 | 0 10 | 23 8 |
| 7 | 16 | 16 | 0 32 | 10 35 | 2 17 | 11 28 | 0 10 | 23 5 |
| 10 | 16 | 16 | 0 32 | 10 38 | 2 17 | 11 35 | 0 10 | 23 1 |
| 13 | 16 | 16 | 0 32 | 10 40 | 2 18 | 11 39 | 0 11 | 22 58 |
| 16 | 16 | 16 | 0 32 | 10 42 | 2 18 | 11 44 | 0 11 | 22 54 |
| 19 | 16 | 17 | 0 32 | 10 44 | 2 19 | 11 49 | 0 11 | 22 50 |
| 22 | 16 | 17 | 0 32 | 10 47 | 2 19 | 11 54 | 0 11 | 22 46 |
| 25 | 16 | 17 | 0 33 | 10 50 | 2 20 | 11 59 | 0 12 | 22 41 |
| 28 | 16 | 17 | 0 33 | 10 52 | 2 20 | 12 4 | 0 12 | 22 36 |
| 31 | 16 | 17 | 0 33 | 10 54 | 2 20 | 12 8 | 0 12 | 22 30 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ♂
Long. | | ♂
Lat. | | ♂
Declin. | | ♂
Long. | |
|--------|--------|-------------------|----|----|------------|----|--------------|----|------------|----|-----------|---|--------------|----|------------|----|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | M | 16 | 38 | 35 | 8 | 40 | 7 | 21 | 8 | 46 | 19 | Ω | 33 | 4 | S | 36 |
| 2 | Tu | 16 | 42 | 32 | 9 | 41 | 1 | 21 | 55 | 3 | 48 | 5 | 6 | 5 | 22 | 28 |
| 3 | W | 16 | 46 | 28 | 10 | 41 | 56 | 22 | 4 | 17 | 57 | 5 | 17 | 0 | S | 6 |
| 4 | Th | 16 | 50 | 25 | 11 | 42 | 53 | 22 | 13 | 2 | 0 | 5 | 9 | 5 | 81 | 28 |
| 5 | F | 16 | 54 | 22 | 12 | 43 | 51 | 22 | 21 | 15 | 55 | 4 | 43 | 10 | 37 | 28 |
| 6 | S | 16 | 58 | 19 | 13 | 44 | 50 | 22 | 28 | 29 | 40 | 4 | 1 | 15 | 7 | 28 |
| 7 | S | 17 | 2 | 16 | 14 | 45 | 51 | 22 | 35 | 13 | m | 3 | 6 | 18 | 47 | 28 |
| 8 | M | 17 | 6 | 13 | 15 | 46 | 52 | 22 | 42 | 26 | 33 | 2 | 2 | 21 | 23 | 28 |
| 9 | Tu | 17 | 10 | 10 | 16 | 47 | 55 | 22 | 48 | 9 | 40 | 0 | 5 | 22 | 47 | 28 |
| 10 | W | 17 | 14 | 7 | 17 | 48 | 58 | 22 | 54 | 22 | 32 | 0 | N | 19 | 22 | 56 |
| 11 | Th | 17 | 18 | 3 | 18 | 50 | 8 | 23 | 0 | 5 | v | 1 | 28 | 21 | 54 | 29 |
| 12 | F | 17 | 22 | 0 | 19 | 51 | 8 | 23 | 4 | 17 | 33 | 2 | 31 | 29 | 48 | 29 |
| 13 | S | 17 | 25 | 57 | 20 | 52 | 13 | 23 | 9 | 29 | 45 | 3 | 27 | 16 | 51 | 29 |
| 14 | S | 17 | 29 | 53 | 21 | 53 | 20 | 23 | 13 | 11 | m | 4 | 12 | 13 | 14 | 29 |
| 15 | M | 17 | 33 | 50 | 22 | 54 | 26 | 23 | 16 | 23 | 41 | 4 | 47 | 9 | 8 | 29 |
| 16 | Tu | 17 | 37 | 47 | 23 | 55 | 33 | 23 | 19 | 5 | 32 | 5 | 8 | 4 | 42 | 29 |
| 17 | W | 17 | 41 | 43 | 24 | 56 | 41 | 23 | 22 | 17 | 25 | 5 | 17 | 0 | 7 | 29 |
| 18 | Th | 17 | 45 | 40 | 25 | 57 | 48 | 23 | 24 | 29 | 24 | 5 | 12 | 4 | N | 32 |
| 19 | F | 17 | 49 | 36 | 26 | 58 | 56 | 23 | 26 | 11 | r | 4 | 53 | 9 | 4 | 29 |
| 20 | S | 17 | 53 | 32 | 28 | 0 | 4 | 23 | 27 | 23 | 58 | 4 | 20 | 13 | 20 | 29 |
| 21 | S | 17 | 57 | 29 | 29 | 1 | 12 | 23 | 28 | 6 | 42 | 8 | 34 | 17 | 8 | 29 |
| 22 | M | 18 | 1 | 26 | 0 | v | 2 | 20 | 28 | 19 | 48 | 2 | 36 | 20 | 12 | 29 |
| 23 | Tu | 18 | 5 | 22 | 1 | 3 | 28 | 23 | 27 | 3 | 17 | 1 | 27 | 22 | 15 | 29 |
| 24 | W | 18 | 9 | 19 | 2 | 4 | 37 | 23 | 27 | 17 | 11 | 0 | 11 | 23 | 1 | 29 |
| 25 | Th | 18 | 13 | 16 | 3 | 5 | 46 | 23 | 26 | 1 | 25 | 1 | S | 7 | 22 | 20 |
| 26 | F | 18 | 17 | 13 | 4 | 6 | 55 | 23 | 24 | 15 | 57 | 2 | 23 | 20 | 9 | 29 |
| 27 | S | 18 | 21 | 9 | 5 | 8 | 4 | 23 | 22 | 0 | Ω | 3 | 30 | 16 | 37 | 29 |
| 28 | S | 18 | 25 | 5 | 6 | 9 | 14 | 23 | 19 | 15 | 25 | 4 | 23 | 12 | 2 | 29 |
| 29 | M | 18 | 29 | 3 | 7 | 10 | 24 | 23 | 16 | 0 | m | 4 | 58 | 6 | 47 | 29 |
| 30 | Tu | 18 | 32 | 59 | 8 | 11 | 34 | 23 | 13 | 14 | 38 | 5 | 14 | 1 | 13 | 26 |
| 31 | W | 18 | 36 | 55 | 9 | 12 | 45 | 23 | 9 | 28 | 56 | 5 | 11 | 4 | S | 19 |

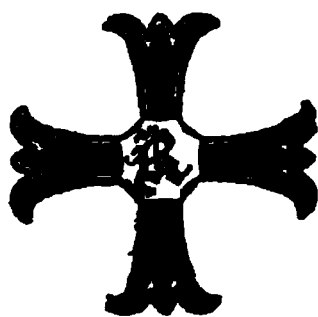
DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 N 13 | 10 N 15 | 0 N 33 | 20 S 4 | 2 S 16 | 11 N 44 | 19 4 33 |
| 4 | 2 17 | 9 50 | 0 26 | 20 47 | 2 0 | 25 26 | 19 22 |
| 7 | 2 21 | 9 26 | 0 19 | 21 36 | 1 33 | 24 56 | 19 13 |
| 10 | 2 25 | 9 3 | 0 12 | 22 20 | 0 55 | 24 15 | 19 8 |
| 13 | 2 29 | 8 40 | 0 4 | 22 46 | 0 6 | 23 27 | 18 54 |
| 16 | 2 33 | 8 19 | 0 S 3 | 23 9 | 0 N 53 | 22 33 | 18 44 |
| 19 | 2 38 | 7 59 | 0 10 | 23 32 | 1 51 | 21 37 | 18 34 |
| 22 | 2 43 | 7 40 | 0 17 | 23 44 | 2 37 | 20 46 | 18 25 |
| 25 | 2 47 | 7 24 | 0 24 | 23 51 | 3 3 | 20 11 | 18 16 |
| 28 | 2 52 | 7 10 | 0 31 | 23 52 | 3 7 | 19 53 | 18 6 |
| 31 | 2 56 | 6 59 | 0 38 | 23 39 | 3 57 | 20 7 | 17 56 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|---------|-------|-------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 5 m 38 | 10 w 45 | 9 m 0 | 2 f 3 | 29 f 45 | | | | | | | | |
| 2 | 5 45 | 10 58 | 9 25 | 3 19 | 0 w 50 | ☉ ☐ ♂ | ☐ * | * | | ♂ | ☐ | Δ | |
| 3 | 5 51 | 11 11 | 9 50 | 4 34 | 1 49 | | | | | Δ | | * | ☐ |
| 4 | 5 58 | 11 24 | 10 15 | 5 50 | 2 41 | | | | | | | * | ☐ |
| 5 | 6 4 | 11 37 | 10 40 | 7 5 | 3 29 | | | * | | ☐ | | | |
| 6 | 6 10 | 11 50 | 11 5 | 8 21 | 4 12 | | | | ♂ | ♂ | | * | * |
| 7 | 6 16 | 12 3 | 11 29 | 9 36 | 4 49 | | | | | | * | * | |
| 8 | 6 22 | 12 16 | 11 53 | 10 52 | 5 18 | | | | | | | | |
| 9 | 6 28 | 12 29 | 12 16 | 12 7 | 5 38 | ♀ ☐ ♂ | ♂ | | | | ☐ | ♂ | |
| 10 | 6 34 | 12 43 | 12 39 | 13 23 | 5 48 | | ♂ | | | | | | |
| 11 | 6 40 | 12 56 | 13 2 | 14 38 | 5 48 | ♂ Δ ♀ | | * | * | | | | ♂ |
| 12 | 6 46 | 13 9 | 13 25 | 15 54 | 5 37 | | | | | ♂ | Δ | | |
| 13 | 6 52 | 13 23 | 13 48 | 17 9 | 5 18 | | | ☐ | | | | | |
| 14 | 6 58 | 13 36 | 14 9 | 18 25 | 4 44 | | | | ☐ | | | | |
| 15 | 7 4 | 13 50 | 14 30 | 19 40 | 3 59 | | | * | | | | | |
| 16 | 7 10 | 14 4 | 15 51 | 20 56 | 3 2 | | | | Δ | Δ | | | * |
| 17 | 7 16 | 14 17 | 15 12 | 22 11 | 1 57 | | | | | | * | ♂ | ☐ |
| 18 | 7 23 | 14 31 | 15 33 | 23 27 | 0 45 | | | ☐ | | | | | ☐ |
| 19 | 7 27 | 14 45 | 15 54 | 24 43 | 29 f 25 | ☉ * ☿ | ☉ * | ☿ | | ☐ | | | |
| 20 | 7 33 | 14 58 | 15 25 | 25 58 | 28 1 | ☉ ☐ ♀ | Δ | ♂ | | | | Δ | Δ |
| 21 | 7 38 | 15 12 | 15 35 | 27 14 | 26 39 | | | | | ♂ | | | |
| 22 | 7 43 | 15 26 | 15 54 | 28 29 | 25 20 | | | | | | Δ | Δ | |
| 23 | 7 49 | 15 39 | 16 12 | 29 45 | 24 8 | | | | | | | | |
| 24 | 7 54 | 15 53 | 16 29 | 1 w 0 | 23 0 | | | | | | | ☐ | ♂ |
| 25 | 7 59 | 16 7 | 16 46 | 2 16 | 21 57 | | | ♂ | Δ | Δ | | | |
| 26 | 8 4 | 16 21 | 16 3 | 3 31 | 21 5 | | | | | | ♂ | * | |
| 27 | 8 9 | 16 35 | 16 18 | 4 47 | 20 26 | | | | ☐ | | | | |
| 28 | 8 14 | 16 49 | 16 35 | 6 2 | 19 59 | | | | | ☐ | | | Δ |
| 29 | 8 19 | 17 3 | 16 51 | 7 18 | 19 42 | ☉ ☐ ♀ | ☉ * | * | | | | | |
| 30 | 8 24 | 17 17 | 17 7 | 8 33 | 19 D 34 | ☉ * ☿ | Δ | | * | * | Δ | ♂ | ☐ |
| 31 | 8 29 | 17 31 | 17 22 | 9 49 | 19 34 | ♀ * ☿ | | | | | | | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES
For 1807.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

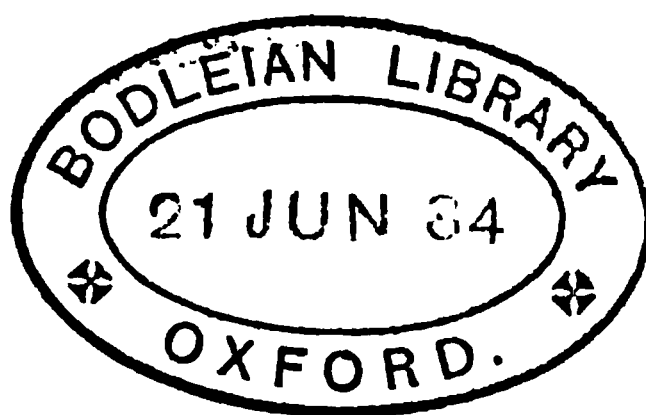
(Alm.) 929 x. 150

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1807.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR,
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | ° | ' | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 N 33 | 10 S 55 | 2 N 21 | 12 S 9 | 0 N 12 | 22 S 29 |
| 4 | 16 | 15 | 0 33 | 10 57 | 2 21 | 12 13 | 0 12 | 22 23 |
| 7 | 16 | 16 | 0 33 | 10 59 | 2 22 | 12 16 | 0 13 | 22 18 |
| 10 | 16 | 16 | 0 33 | 11 0 | 2 22 | 12 19 | 0 13 | 22 12 |
| 13 | 16 | 17 | 0 33 | 11 1 | 2 23 | 12 22 | 0 13 | 22 7 |
| 16 | 16 | 17 | 0 III | 11 2 | 2 24 | 12 25 | 0 13 | 22 1 |
| 19 | 16 | 17 | 0 33 | 11 3 | 2 25 | 12 27 | 0 14 | 21 54 |
| II | 16 | 18 | 0 33 | 11 3 | 2 25 | 12 29 | 0 14 | 21 48 |
| 25 | 16 | 18 | 0 33 | 11 4 | 2 26 | 12 31 | 0 15 | 21 41 |
| 28 | 16 | 18 | 0 33 | 11 4 | 2 26 | 12 33 | 0 15 | 21 35 |
| 31 | 16 | 18 | 0 33 | 11 5 | 2 27 | 12 34 | 0 15 | 21 27 |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 18 40 52 | 10 w 13 56 | 23 S 4 12 | ♄ 57 | 4 S 48 | 9 S 32 | 29 50 |
| 2 | F | 18 44 49 | 11 15 7 | 22 59 28 | 40 | 4 10 14 | 10 | 29 52 |
| 3 | S | 18 48 45 | 12 16 19 | 22 54 10 | m 6 | 3 18 17 | 59 | 29 54 |
| 4 | S | 18 52 42 | 13 17 30 | 22 48 23 | 16 | 2 17 20 | 49 | 29 55 |
| 5 | M | 18 56 38 | 14 18 42 | 22 42 6 | † 12 | 1 10 22 | 31 | 29 57 |
| 6 | Tu | 19 0 36 | 15 19 54 | 22 35 18 | 55 | 0 1 23 | 1 | 29 59 |
| | | | 16 21 6 | 22 28 1 | w 27 | 1 N 8 22 | 20 | 0 m 0 |
| | | | 17 22 17 | 22 20 18 | 49 | 2 12 20 | 34 | 0 2 |
| | | | 18 III | 22 12 26 | 1 | 3 9 17 | 52 | 0 3 |
| | | | II | 24 40 22 | 8 8 m 6 | 3 57 14 | 37 | 0 4 |
| | | | 20 25 50 | 21 54 20 | 4 | 4 34 10 | 29 | 0 5 |
| | | | II | 27 0 21 | 45 1 x 57 | 4 58 6 | 8 | 0 6 |
| | | | 22 28 9 | 21 35 18 | 48 | 5 10 1 | 36 | 0 7 |
| | | | 23 29 17 | 21 25 25 | 40 | 5 9 3 | N 0 | 0 8 |
| | | | 24 30 25 | 21 14 7 | r 37 | 4 54 7 | 32 | 0 10 |
| 16 | F | 19 40 2 25 | 31 32 21 | 3 19 42 | 4 | 4 26 11 | 49 | 0 11 |
| 17 | S | 19 43 58 26 | 32 38 20 | 52 2 2 | 3 | 4 46 15 | 43 | 0 12 |
| II | S | 19 47 53 27 | 33 42 20 | 40 14 39 | 2 | 53 19 | 1 | 0 13 |
| 19 | M | 19 51 50 28 | 34 46 20 | 28 27 40 | 1 | 51 21 | 27 | 0 14 |
| 20 | Tu | 19 55 46 29 | 35 49 20 | 15 11 7 | 0 | 40 22 | 47 | 0 15 |
| 21 | W | 19 59 43 0 m | 36 51 20 | 2 25 2 | 0 S 36 22 | 46 | 0 16 | |
| 22 | Th | 20 3 39 1 | 37 52 19 | 49 9 24 | 1 | 51 21 | 17 | 0 17 |
| 23 | F | 20 7 36 2 | 38 52 19 | 35 24 11 | 3 | 1 13 20 | 0 | 18 |
| 24 | S | 20 11 33 III | 39 51 19 | 21 9 14 | 4 | 0 14 7 | 0 | 18 |
| II | S | 20 15 29 4 | 40 49 II | 7 24 25 | 4 | 42 8 58 | 0 | 19 |
| 26 | M | 20 19 26 5 | 41 46 18 | 52 9 m 33 | 5 | 4 3 18 | 0 | 19 |
| 27 | Tu | 20 23 22 6 | 42 43 18 | 37 24 28 | 5 | 5 28 29 | 0 | 20 |
| 28 | W | 20 27 19 7 | 43 39 18 | 21 9 3 | 4 | 47 7 59 | 0 | 20 |
| 29 | Th | 20 31 15 8 | 44 34 18 | 6 23 15 | 4 | 11 12 55 | 0 | 21 |
| 30 | II | 20 35 12 9 | 45 28 17 | 49 7 m 0 | 3 | 21 17 2 | 0 | 21 |
| 31 | S | 20 39 8 10 | 46 21 17 | 38 30 22 | 2 | 23 20 8 | 0 | 21 |

1867.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

3

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 2 N 58 | 6 N 51 | 0 S 40 | 23 S 40 | 2 N 51 | 20 S 13 | 17 ↑ 53 |
| 4 | 3 3 | 6 40 | 0 45 | 23 21 | 2 29 | 20 41 | 17 43 |
| 7 | 3 8 | 6 30 | 0 52 | 23 1 | 2 3 | 21 14 | 17 34 |
| 10 | 3 13 | 6 23 | 0 57 | 22 29 | 1 35 | 21 49 | 17 24 |
| 13 | 3 18 | 6 18 | 1 3 | 21 58 | 1 8 | 22 20 | 17 15 |
| 16 | 3 23 | 6 14 | 1 8 | 21 14 | 0 40 | 22 46 | 17 5 |
| 19 | 3 29 | 6 15 | 1 12 | 20 30 | 0 14 | 23 4 | 16 56 |
| 22 | 3 34 | 6 17 | 1 15 | 19 36 | 0 S 10 | 23 13 | 16 46 |
| 25 | 3 39 | 6 22 | 1 19 | 18 41 | 0 33 | 23 12 | 16 37 |
| 28 | 3 44 | 6 30 | 1 22 | 17 35 | 0 54 | 22 59 | 16 27 |
| 31 | 3 49 | 6 41 | 1 25 | 16 18 | 1 12 | 22 35 | 16 18 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 8 33 | 17 45 | 19 37 | 11 5 | 19 ↑ 42 | ♀ ☐ ♂ | ☐ | ♂ | | ☐ | | ☐ | * |
| 2 | 8 38 | 17 59 | 19 52 | 12 20 | 19 54 | | * | ♂ | | | | | |
| 3 | 8 42 | 18 13 | 20 6 | 13 36 | 20 20 | | | ♂ | | | | * | * |
| 4 | 8 47 | 18 27 | 20 19 | 14 51 | 20 58 | | | | | * | * | | |
| 5 | 8 51 | 18 41 | 20 31 | 16 7 | 21 39 | | | | | | | | |
| 6 | 8 55 | 18 55 | 20 42 | 17 22 | 22 22 | | | | | | | ☐ | ♂ |
| 7 | 8 59 | 19 9 | 20 52 | 18 38 | 23 6 | | | * | | | | | |
| 8 | 9 5 | 19 23 | 21 2 | 19 53 | 23 57 | ♀ ♂ ♈ | ♂ | | * | ♂ | | | |
| 9 | 9 7 | 19 37 | 21 12 | 21 9 | 24 53 | ♀ Δ ♂ | | ☐ | | | Δ | ♂ | |
| 10 | 9 11 | 19 51 | 21 21 | 22 24 | 25 54 | ☉ ♂ ♈ | | | ☐ | | | | |
| 11 | 9 15 | 20 5 | 21 30 | 23 40 | 26 56 | | | | | | | | |
| 12 | 9 19 | 20 19 | 21 38 | 24 55 | 28 1 | ☉ Δ ♂ | | Δ | | | | | * |
| 13 | 9 23 | 20 33 | 21 46 | 26 11 | 29 9 | | | | Δ | | | | |
| 14 | 9 26 | 20 47 | 21 53 | 27 26 | 0 19 | ♀ * ♈ | * | | | * | ♂ | * | ☐ |
| 15 | 9 30 | 21 1 | 21 59 | 28 42 | 1 30 | | | | | | | | |
| 16 | 9 33 | 21 15 | 22 5 | 29 57 | 2 43 | ♀ ☐ ♈ | | | | | ☐ | | |
| 17 | 9 36 | 21 29 | 22 10 | 1 12 | 3 58 | | ☐ | ♂ | | | | ☐ | Δ |
| 18 | 9 39 | 21 43 | 22 14 | 2 28 | 5 15 | | | | ♂ | | | | |
| 19 | 9 42 | 21 57 | 22 18 | 3 43 | 6 38 | | Δ | | | Δ | Δ | Δ | |
| 20 | 9 45 | 22 11 | 22 21 | 4 58 | 7 53 | | | | | | | | |
| 21 | 9 48 | 22 25 | 22 24 | 6 14 | 9 14 | ☉ ☐ ♈ | | Δ | | | ☐ | | |
| 22 | 9 51 | 22 39 | 22 25 | 7 29 | 10 36 | ♂ Δ ♈ | | | Δ | | | | ♂ |
| 23 | 9 54 | 22 53 | 22 25 | 8 44 | 11 59 | ♀ * ♈ | | ☐ | | ♂ | * | | |
| 24 | 9 57 | 23 7 | 22 25 | 10 0 | 13 23 | ♀ ☐ ♈ | ♂ | | ☐ | | | ♂ | |
| 25 | 9 59 | 23 21 | 22 24 | 11 15 | 14 47 | | | * | | | | | |
| 26 | 10 2 | 23 35 | 22 24 | 12 30 | 16 12 | | | | * | | | | Δ |
| 27 | 10 4 | 23 49 | 22 22 | 13 45 | 17 39 | | | | | Δ | ♂ | | |
| 28 | 10 6 | 24 3 | 22 19 | 15 1 | 19 7 | | Δ | | | | | Δ | |
| 29 | 10 8 | 24 17 | 22 15 | 16 16 | 20 35 | | | | | | ☐ | | ☐ |
| 30 | 10 10 | 24 31 | 22 10 | 17 31 | 22 4 | ☉ ☐ ♈ | ☐ | ♂ | ♂ | | | | |
| 31 | 10 12 | 24 45 | 22 4 | 18 47 | 23 33 | ♀ Δ ♂ | | | | * | * | ☐ | * |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 33 | 11 S 5 | 2 N 28 | 12 S 34 | 0 S 15 | 21 S 25 |
| 4 | 16 | 15 | 0 33 | 11 5 | 2 28 | 12 34 | 0 15 | 21 17 |
| 7 | 16 | 14 | 0 33 | 11 4 | 2 29 | 12 35 | 0 16 | 21 10 |
| 10 | 16 | 14 | 0 33 | 11 4 | 2 29 | 12 35 | 0 16 | 21 2 |
| 13 | 16 | 13 | 0 34 | 11 4 | 2 30 | 12 35 | 0 17 | 20 55 |
| 16 | 16 | 12 | 0 34 | 11 3 | 2 31 | 12 34 | 0 17 | 20 47 |
| 19 | 16 | 11 | 0 34 | 11 3 | 2 32 | 12 34 | 0 17 | 20 40 |
| 22 | 16 | 11 | 0 34 | 11 2 | 2 33 | 12 33 | 0 17 | 20 32 |
| 25 | 16 | 10 | 0 34 | 11 1 | 2 33 | 12 32 | 0 18 | 20 24 |
| 28 | 16 | 10 | 0 34 | 10 59 | 2 34 | 12 31 | 0 18 | 20 16 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|-----------------------|-------------------------|------------|-----------|-------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° | ° ' " | ° ' " | ° ' " |
| 1 | S | 20 43 5 | 11 ^m 47 14 | 17 S 16 | 3 1 21 | 1 S 17 | 22 S 6 | 0 ^m 21 |
| 2 | M | 20 47 1 | 12 48 6 | 16 59 16 | 2 0 9 | 22 53 | 0 21 | |
| 3 | Tu | 20 50 58 | 13 48 56 | 16 42 28 | 29 0 N 57 | 22 30 | 0 21 | |
| 4 | W | 20 54 55 | 14 49 46 | 16 24 10 | 45 2 0 | 21 2 | 0 R 21 | |
| 5 | Th | 20 58 51 | 15 50 35 | 16 6 22 | 53 2 56 | 18 37 | 0 21 | |
| 6 | F | 21 2 47 | 16 51 23 | 15 48 4 ^m 54 | 3 44 15 | 26 0 20 | | |
| 7 | S | 21 6 44 | 17 52 9 | 15 29 16 | 51 4 22 | 11 39 | 0 20 | |
| 8 | S | 21 10 41 | 18 52 54 | 15 11 28 | 45 4 47 | 7 26 | 0 20 | |
| 9 | M | 21 14 39 | 19 53 37 | 14 52 10 | 37 5 1 | 2 57 | 0 20 | |
| 10 | Tu | 21 18 34 | 20 54 19 | 14 32 22 | 29 5 1 | 1 N 37 | 0 19 | |
| 11 | W | 21 22 31 | 21 55 0 | 14 13 4 | 22 4 48 | 6 9 | 0 19 | |
| 12 | Th | 21 26 27 | 22 55 38 | 13 53 16 | 20 4 23 | 10 28 | 0 18 | |
| 13 | F | 21 30 24 | 23 56 15 | 13 33 28 | 25 3 45 | 14 25 | 0 18 | |
| 14 | S | 21 34 21 | 24 56 50 | 13 13 10 | 41 2 57 | 17 50 | 0 17 | |
| 15 | S | 21 38 17 | 25 57 24 | 12 53 23 | 13 1 59 | 20 31 | 0 16 | |
| 16 | M | 21 42 13 | 26 57 55 | 12 32 6 | 6 0 53 | 22 13 | 0 16 | |
| 17 | Tu | 21 46 10 | 27 58 24 | 12 11 19 | 23 0 S 17 | 22 46 | 0 15 | |
| 18 | W | 21 50 7 | 28 58 52 | 11 50 3 | 5 1 29 | 21 57 | 0 14 | |
| 19 | Th | 21 54 3 | 29 59 18 | 11 29 17 | 24 2 37 | 19 44 | 0 14 | |
| 20 | F | 21 58 0 | 0 ^m 59 42 | 11 8 2 | 7 3 38 | 16 10 | 0 13 | |
| 21 | S | 22 1 56 | 2 0 4 | 10 46 17 | 13 4 24 | 11 29 | 0 13 | |
| 22 | S | 22 5 53 | 3 0 24 | 10 25 2 ^m 32 | 4 53 6 | 1 0 12 | | |
| 23 | M | 22 9 49 | 4 0 42 | 10 3 17 | 54 5 0 | 0 10 | 0 11 | |
| 24 | Tu | 22 13 45 | 5 0 59 | 9 41 3 | 7 4 47 | 58 37 | 0 10 | |
| 25 | W | 22 17 42 | 6 1 14 | 9 19 17 | 59 4 13 | 10 58 | 0 9 | |
| 26 | Th | 22 21 39 | 7 1 28 | 8 56 2 ^m 25 | 3 25 15 | 32 0 8 | | |
| 27 | F | 22 25 35 | 8 1 40 | 8 34 16 | 22 2 25 | 19 4 | 0 7 | |
| 28 | S | 22 29 32 | 9 1 51 | 8 11 29 | 49 1 19 | 21 26 | 0 5 | |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 3 N 51 | 6 N 44 | 1 S 25 | 16 S 10 | 1 S 18 | 22 S 25 | 16 † 15 |
| 4 | 3 55 | 6 57 | 1 27 | 15 5 | 1 34 | 21 46 | 16 5 |
| 7 | 3 59 | 7 13 | 1 28 | 13 42 | 1 46 | 20 54 | 15 56 |
| 10 | 4 3 | 7 30 | 1 28 | 12 21 | 1 56 | 19 49 | 15 46 |
| 13 | 4 6 | 7 52 | 1 28 | 11 2 | 2 3 | 18 32 | 15 37 |
| 16 | 4 8 | 8 14 | 1 27 | 9 36 | 2 6 | 17 2 | 15 27 |
| 19 | 4 11 | 8 38 | 1 26 | 8 11 | 2 5 | 15 19 | 15 18 |
| 22 | 4 11 | 9 8 | 1 24 | 6 39 | 2 1 | 13 23 | 15 8 |
| 25 | 4 12 | 9 29 | 1 22 | 5 12 | 1 52 | 11 15 | 14 59 |
| 28 | 4 12 | 9 59 | 1 20 | 3 39 | 1 38 | 8 55 | 14 49 |

| D
M | ♄ | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♁ | ♂ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 10 14 | 24 58 | 21 57 | 20 2 | 25 4 | 25 4 | ♀ ♂ ♄ | | | | | | | |
| 2 | 10 16 | 25 12 | 21 49 | 21 17 | 26 35 | 26 35 | | * | | | □ | * | | |
| 3 | 10 17 | 25 26 | 21 41 | 22 32 | 28 7 | 28 7 | | | * | | | | | |
| 4 | 10 19 | 25 39 | 21 32 | 23 47 | 29 41 | 29 41 | ♀ □ ☿ | | | * | | | | |
| 5 | 10 20 | 25 53 | 21 23 | 25 3 | 1 15 | 1 15 | | | | | ♄ | Δ | | |
| 6 | 10 21 | 26 7 | 21 13 | 26 18 | 2 49 | 2 49 | | ♄ | □ | □ | | | | ♄ |
| 7 | 10 22 | 26 20 | 21 2 | 27 33 | 4 24 | 4 24 | | ♄ | Δ | | | | | ♄ |
| 8 | 10 23 | 26 34 | 20 50 | 28 48 | 6 0 | 6 0 | | | | Δ | | | | ♄ |
| 9 | 10 24 | 26 47 | 20 37 | 0 3 | 7 37 | 7 37 | ♀ Δ ☿ | | | Δ | | | | |
| 10 | 10 25 | 27 1 | 20 24 | 1 19 | 9 15 | 9 15 | | | | | * | ♄ | | |
| 11 | 10 26 | 27 14 | 20 10 | 2 34 | 10 54 | 10 54 | ♀ □ ♄ | | | | | | | |
| 12 | 10 27 | 27 28 | 19 55 | 3 49 | 12 33 | 12 33 | | | | | | | | * |
| 13 | 10 27 | 27 41 | 19 40 | 5 14 | 13 13 | 13 13 | | * | ♄ | | □ | | | |
| 14 | 10 28 | 27 55 | 19 24 | 6 19 | 15 54 | 15 54 | | | | ♄ | | | * | □ |
| 15 | 10 28 | 28 8 | 19 7 | 7 34 | 17 36 | 17 36 | | □ | | | Δ | Δ | | |
| 16 | 10 29 | 28 21 | 18 50 | 8 49 | 19 19 | 19 19 | | | | | | | □ | |
| 17 | 10 29 | 28 34 | 18 32 | 10 4 | 21 3 | 21 3 | ♀ Δ ♄ | | | | | □ | | Δ |
| 18 | 10 29 | 28 47 | 18 13 | 11 14 | 22 48 | 22 48 | | Δ | Δ | | | | | |
| 19 | 10 29 | 29 0 | 17 53 | 12 30 | 24 33 | 24 33 | ☉ Δ ☿ | | | Δ | | * | Δ | |
| 20 | 10 29 | 29 13 | 17 33 | 13 49 | 26 19 | 26 19 | | | □ | | ♄ | | | |
| 21 | 10 28 | 29 26 | 17 12 | 15 4 | 28 7 | 28 7 | ♀ ♂ ♂ | | | □ | | | | |
| 22 | 10 28 | 29 39 | 16 51 | 16 19 | 29 56 | 29 56 | ♀ Δ ☿ | ♄ | * | | | | | ♄ |
| 23 | 10 27 | 29 52 | 16 30 | 17 34 | 1 46 | 1 46 | | | | * | | ♄ | ♄ | |
| 24 | 10 27 | 0 5 | 16 8 | 18 49 | 3 36 | 3 36 | ♄ □ ☿ | | | | Δ | | | |
| 25 | 10 26 | 0 18 | 15 46 | 20 3 | 5 27 | 5 27 | | | | | | | | |
| 26 | 10 25 | 0 31 | 15 24 | 21 18 | 7 19 | 7 19 | ☉ ♂ ♄ | Δ | ♄ | | □ | | | Δ |
| 27 | 10 24 | 0 44 | 15 1 | 22 33 | 9 12 | 9 12 | | | | ♄ | | * | Δ | |
| 28 | 10 23 | 0 56 | 14 38 | 23 48 | 11 7 | 11 7 | ♀ Δ ♄ | | | | | | | |
| | | | | | | | | | | | * | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 34 | 10 S 58 | 2 N 34 | 12 S 30 | 0 S 19 | 20 S 14 |
| 4 | 16 | 9 | 0 34 | 10 56 | 2 34 | 12 28 | 0 19 | 20 6 |
| 7 | 16 | 8 | 0 34 | 10 54 | 2 35 | 12 27 | 0 20 | 19 58 |
| 10 | 16 | 8 | 0 34 | 10 53 | 2 36 | 12 25 | 0 20 | 19 51 |
| 13 | 16 | 7 | 0 34 | 10 51 | 2 37 | 12 22 | 0 20 | 19 43 |
| 16 | 16 | 6 | 0 34 | 10 49 | 2 37 | 12 19 | 0 20 | 19 35 |
| 19 | 16 | 5 | 0 34 | 10 48 | 2 38 | 12 16 | 0 21 | 19 28 |
| 22 | 16 | 4 | 0 34 | 10 46 | 2 38 | 12 12 | 0 21 | 19 20 |
| 25 | 16 | 3 | 0 34 | 10 44 | 2 39 | 12 9 | 0 22 | 19 13 |
| 28 | 16 | 3 | 0 34 | 10 41 | 2 39 | 12 5 | 0 22 | 19 5 |
| 31 | 16 | 2 | 0 34 | 10 38 | 2 39 | 12 1 | 0 22 | 18 58 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin | | ♄
Long. | | ♄
Lat. | | ♄
Declin | | ♃
Long. | |
|--------|--------|-------------------|----|----|------------|---------|-------------|---------|------------|---------|-----------|-----|-------------|---|------------|---|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 22 | 33 | 28 | 10 | 1 59 | 7 8 49 | 12 1 50 | 0 S 11 | 22 S 33 | 0 | m 4 | | | | |
| 2 | M | 22 | 37 | 25 | 11 | 2 7 | 7 26 | 25 29 | 0 N 55 | 22 28 | 0 | R 3 | | | | |
| 3 | Tu | 22 | 41 | 22 | 12 | 2 13 | 7 3 | 7 50 | 1 58 | 21 16 | 0 | 1 | | | | |
| 4 | W | 22 | 45 | 18 | 13 | 2 18 | 6 40 | 19 58 | 2 53 | 19 7 | 0 | 0 | | | | |
| 5 | Th | 22 | 49 | 15 | 14 | 2 20 | 6 17 | 1 58 | 3 41 | 16 9 | 29 | 58 | | | | |
| 6 | F | 22 | 53 | 11 | 15 | 2 21 | 5 54 | 13 52 | 4 18 | 12 34 | 29 | 56 | | | | |
| 7 | S | 22 | 57 | 8 | 16 | 2 21 | 5 31 | 25 44 | 4 44 | 8 33 | 29 | 55 | | | | |
| 8 | S | 23 | 1 | 4 | 17 | 2 18 | 5 7 | 7 35 | 4 57 | 4 8 | 29 | 53 | | | | |
| 9 | M | 23 | 5 | 1 | 18 | 2 14 | 4 44 | 19 28 | 4 58 | 0 N 23 | 29 | 51 | | | | |
| 10 | Tu | 23 | 8 | 57 | 19 | 2 7 | 4 21 | 1 23 | 4 45 | 4 55 | 29 | 49 | | | | |
| 11 | W | 23 | 12 | 54 | 20 | 1 59 | 3 57 | 13 21 | 4 20 | 9 16 | 29 | 48 | | | | |
| 12 | Th | 23 | 16 | 51 | 21 | 1 48 | 3 34 | 25 25 | 3 43 | 13 18 | 29 | 47 | | | | |
| 13 | F | 23 | 20 | 48 | 22 | 1 36 | 3 10 | 7 36 | 2 56 | 16 50 | 29 | 45 | | | | |
| 14 | S | 23 | 24 | 43 | 23 | 1 21 | 2 46 | 19 56 | 1 59 | 19 39 | 29 | 43 | | | | |
| 15 | S | 23 | 28 | 41 | 24 | 1 3 | 2 23 | 2 30 | 0 56 | 21 36 | 29 | 41 | | | | |
| 16 | M | 23 | 32 | 37 | 25 | 0 44 | 1 59 | 15 21 | 0 S 12 | 22 28 | 29 | 39 | | | | |
| 17 | Tu | 23 | 36 | 33 | 26 | 0 22 | 1 35 | 28 32 | 1 21 | 22 7 | 29 | 37 | | | | |
| 18 | W | 23 | 40 | 30 | 26 | 59 57 | 1 12 | 12 58 | 2 27 | 20 28 | 29 | 35 | | | | |
| 19 | Th | 23 | 44 | 27 | 27 | 59 31 | 0 48 | 26 11 | 3 27 | 17 33 | 29 | 33 | | | | |
| 20 | F | 23 | 48 | 24 | 28 | 59 2 | 0 24 | 10 39 | 4 16 | 13 29 | 29 | 31 | | | | |
| 21 | S | 23 | 52 | 20 | 29 | 58 30 | 0 1 | 25 31 | 4 48 | 8 30 | 29 | 28 | | | | |
| 22 | S | 23 | 56 | 16 | 0 | r 57 57 | 0 N 23 | 10 40 | 5 1 | 2 55 | 29 | 26 | | | | |
| 23 | M | 0 | 0 | 12 | 1 | 57 22 | 0 47 | 25 56 | 4 54 | 2 S 52 | 29 | 24 | | | | |
| 24 | Tu | 0 | 4 | 9 | 2 | 56 44 | 1 10 | 11 7 | 4 25 | 8 28 | 29 | 23 | | | | |
| 25 | W | 0 | 8 | 5 | 3 | 56 4 | 1 34 | 26 4 | 3 38 | 13 28 | 29 | 20 | | | | |
| 26 | Th | 0 | 12 | 2 | 4 | 55 28 | 1 57 | 10 38 | 2 39 | 17 32 | 29 | 17 | | | | |
| 27 | F | 0 | 15 | 59 | 5 | 54 39 | 2 21 | 24 44 | 1 31 | 20 26 | 29 | 15 | | | | |
| 28 | S | 0 | 19 | 55 | 6 | 53 54 | 2 44 | 8 1 20 | 0 19 | 22 2 | 29 | 13 | | | | |
| 29 | S | 0 | 23 | 52 | 7 | 53 7 | 3 8 | 21 29 | 0 N 50 | 22 21 | 29 | 10 | | | | |
| 30 | M | 0 | 27 | 49 | 8 | 52 18 | 3 31 | 4 12 | 1 56 | 21 28 | 29 | 8 | | | | |
| 31 | Tu | 0 | 31 | 45 | 9 | 51 28 | 3 55 | 16 36 | 2 54 | 19 34 | 29 | 6 | | | | |

APRIL XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 34 | 10 S 37 | 2 N 40 | 12 S 1 | 0 S 23 | 18 S 66 |
| 4 | 16 | 0 | 0 34 | 10 34 | 2 40 | 11 57 | 0 23 | 18 50 |
| 7 | 15 | 59 | 0 34 | 10 31 | 2 40 | 11 53 | 0 24 | 18 43 |
| 10 | 15 | 58 | 0 34 | 10 28 | 2 40 | 11 49 | 0 24 | 18 36 |
| 13 | 16 | 58 | 0 34 | 10 26 | 2 41 | 11 45 | 0 25 | 18 31 |
| 16 | 16 | 57 | 0 34 | 10 23 | 2 41 | 11 41 | 0 25 | 18 26 |
| 19 | 15 | 56 | 0 34 | 10 21 | 2 41 | 11 36 | 0 26 | 18 19 |
| 22 | 15 | 56 | 0 34 | 10 19 | 2 41 | 11 31 | 0 27 | 18 14 |
| 25 | 15 | 55 | 0 34 | 10 17 | 2 41 | 11 27 | 0 28 | 18 9 |
| 28 | 15 | 54 | 0 34 | 10 15 | 2 41 | 11 23 | 0 28 | 18 4 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 0 35 42 | 10 50 35 | 4 N 18 | 28 44 | 3 N 43 | 16 S 48 | 29 4 |
| 2 | Th | 0 39 39 | 11 49 41 | 4 41 | 10 42 | 4 21 | 13 23 | 29 1 |
| 3 | F | 0 43 35 | 12 48 46 | 5 4 | 23 35 | 4 47 | 9 28 | 29 59 |
| 4 | S | 0 47 32 | 13 47 45 | 5 27 | 4 25 | 5 2 | 5 18 | 28 56 |
| 5 | S | 0 51 28 | 14 46 48 | 5 50 | 16 17 | 5 3 | 0 46 | 28 54 |
| 6 | M | 0 55 24 | 15 45 47 | 6 13 | 28 12 | 4 51 | 8 N 44 | 28 52 |
| 7 | Tu | 0 59 21 | 16 44 44 | 6 35 | 10 12 | 4 27 | 8 7 | 28 50 |
| 8 | W | 1 3 18 | 17 43 39 | 6 58 | 22 19 | 3 49 | 12 15 | 28 47 |
| 9 | Th | 1 7 14 | 18 42 31 | 7 20 | 4 34 | 3 1 | 15 54 | 28 44 |
| 10 | F | 1 11 11 | 19 41 22 | 7 48 | 16 55 | 2 4 | 18 54 | 28 41 |
| 11 | S | 1 15 7 | 20 40 10 | 8 1 | 29 31 | 1 0 | 21 3 | 28 39 |
| 12 | S | 1 19 4 | 21 38 57 | 8 27 | 12 17 | 0 8 | 8 22 | 28 37 |
| 13 | M | 1 23 1 | 22 37 40 | 8 49 | 25 16 | 1 18 | 23 5 | 28 34 |
| 14 | Tu | 1 26 57 | 23 36 22 | 9 10 | 8 32 | 2 24 | 20 47 | 28 31 |
| 15 | W | 1 30 53 | 24 35 2 | 9 32 | 22 7 | 3 26 | 18 17 | 28 29 |
| 16 | Th | 1 34 50 | 25 33 39 | 9 54 | 6 1 | 4 14 | 14 41 | 28 26 |
| 17 | F | 1 38 47 | 26 32 14 | 10 15 | 20 16 | 4 50 | 10 10 | 28 23 |
| 18 | S | 1 42 43 | 27 30 46 | 10 36 | 4 49 | 5 7 | 4 50 | 28 21 |
| 19 | S | 1 46 40 | 28 29 17 | 10 57 | 19 36 | 6 5 | 0 S 33 | 28 19 |
| 20 | M | 1 50 37 | 29 27 45 | 11 16 | 4 30 | 4 42 | 6 6 | 28 16 |
| 21 | Tu | 1 54 33 | 0 26 12 | 11 38 | 10 23 | 4 1 | 11 15 | 28 14 |
| 22 | W | 1 58 29 | 1 24 36 | 11 59 | 4 7 | 3 8 | 15 46 | 28 12 |
| 23 | Th | 2 2 25 | 2 22 59 | 12 18 | 18 34 | 1 56 | 19 12 | 28 10 |
| 24 | F | 2 6 22 | 3 21 20 | 12 39 | 2 38 | 0 41 | 21 23 | 28 6 |
| 25 | S | 2 10 15 | 4 19 40 | 12 56 | 16 10 | 0 N 33 | 22 12 | 28 4 |
| 26 | | | | | | | | 1 |
| 27 | | | | | | | | 55 |
| 28 | | | | | | | | 53 |
| 29 | | | | | | | | 51 |

APRIL XXX DAYS.

| D.
M. | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|----------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 3 N 17 | 13 N 2 | 0 S 16 | 12 N 24 | 3 N 18 | 12 N 37 | 13 † 7 |
| 4 | 3 10 | 13 4 | 0 8 | 13 45 | 3 12 | 12 15 | 12 58 |
| 7 | 3 2 | 13 6 | 0 0 | 15 3 | 2 51 | 11 21 | 12 48 |
| 10 | 2 54 | 13 4 | 0 N 8 | 16 15 | 2 18 | 10 3 | 12 39 |
| 13 | 2 47 | 12 59 | 0 17 | 17 29 | 1 34 | 8 31 | 12 29 |
| 16 | 2 39 | 12 52 | 0 25 | 18 33 | 0 45 | 6 59 | 12 20 |
| 19 | 2 31 | 12 42 | 0 34 | 19 40 | 0 S 5 | 5 38 | 12 10 |
| 22 | 2 23 | 12 30 | 0 43 | 20 36 | 0 52 | 4 35 | 12 1 |
| 25 | 2 16 | 12 16 | 0 50 | 21 31 | 1 33 | 3 55 | 11 51 |
| 28 | 2 8 | 12 0 | 1 0 | 22 17 | 2 7 | 3 39 | 11 42 |

| D.
M. | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|----------|-------|-------|-------|-------|---------|-------|------------------|----------------|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 9m 6 | 6m 54 | 4m 18 | 3 21 | 24 r 38 | | | | ☐ | | | | ☐ |
| 2 | 9 R 3 | 7 4 | 4 R 3 | 4 35 | 24 R 31 | ♀ Δ ♂ | * | | | ☐ | ♈ | | ☐ |
| 3 | 8 59 | 7 14 | 3 54 | 5 48 | 24 16 | | | | | | | | * |
| 4 | 8 55 | 7 23 | 3 45 | 7 23 | 53 | ♀ ☐ ♈ | | Δ | Δ | | ♉ | * | |
| 5 | 8 51 | 7 32 | 3 37 | 8 15 | 23 25 | ♀ ♂ h | | | | | | | |
| 6 | 8 47 | 7 41 | 3 30 | 9 29 | 22 54 | | | | | | | | |
| 7 | 8 43 | 7 50 | 3 24 | 10 42 | 22 20 | | | | | | * | | |
| 8 | 8 39 | 7 59 | 3 19 | 11 56 | 21 42 | | | ♈ | | | | | ♈ |
| 9 | 8 35 | 8 8 | 3 14 | 13 9 | 20 59 | | | ♉ | ♉ | ☐ | Δ | | |
| 10 | 8 31 | 8 17 | 3 10 | 14 22 | 20 14 | ☉ ♂ ♀ | | | | | | ♈ | |
| 11 | 8 27 | 8 25 | 3 7 | 15 36 | 19 39 | ♈ ☐ h | | | | | | ☐ | |
| 12 | 8 23 | 8 34 | 3 5 | 16 49 | 18 44 | | | | | | Δ | | * |
| 13 | 8 18 | 8 42 | 3 4 | 18 2 | 18 0 | | | * | Δ | | | | |
| 14 | 8 14 | 8 50 | 3 3 | 19 15 | 17 17 | | | | | Δ | | * | |
| 15 | 8 10 | 8 58 | 3 D 3 | 20 28 | 16 37 | | | ☐ | ☐ | | | | * ☐ |
| 16 | 8 5 | 9 5 | 3 4 | 21 41 | 16 0 | | | | | ☐ | ♉ | | Δ |
| 17 | 8 1 | 9 13 | 3 6 | 22 54 | 15 26 | | | Δ | | | | ♈ | ☐ Δ |
| 18 | 7 57 | 9 21 | 3 9 | 24 7 | 14 55 | | | | * | * | | ♈ | |
| 19 | 7 52 | 9 28 | 3 12 | 25 20 | 14 28 | ☉ ♂ ☿ | | | | | | Δ | |
| 20 | 7 48 | 9 35 | 3 16 | 26 33 | 14 6 | | | | | | Δ | | |
| 21 | 7 43 | 9 42 | 3 20 | 27 46 | 13 49 | | | | | | | | ♉ |
| 22 | 7 38 | 9 49 | 3 25 | 28 58 | 13 38 | | | ♉ | ♈ | ♈ | ☐ | * | |
| 23 | 7 34 | 9 56 | 3 31 | 0 11 | 18 33 | | | | | | | | |
| 24 | 7 29 | 10 3 | 3 37 | 1 24 | 18 D 31 | ☉ Δ ♂ | | | | | | ☐ | ♉ |
| 25 | 7 24 | 10 9 | 3 44 | 2 36 | 18 32 | | | | | | * | | Δ |
| 26 | 7 20 | 10 15 | 3 52 | 3 49 | 18 40 | ♀ ☐ ♂ | | Δ | * | | | Δ | |
| 27 | 7 15 | 10 21 | 4 0 | 5 1 | 18 53 | | | | | * | | | ☐ |
| 28 | 7 11 | 10 27 | 4 9 | 6 13 | 14 11 | ☉ ♂ h | | | ☐ | | | | |
| 29 | 7 6 | 10 33 | 4 18 | 7 26 | 14 32 | | | ☐ | | ☐ | ♈ | | Δ |
| 30 | 7 2 | 10 39 | 4 28 | 8 38 | 14 59 | | | | | | | | * |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 N 3 | 11 N 43 | 1 N 6 | 23 N 2 | 2 S 34 | 3 N 44 | 11. ↑ 32 |
| 4 | 1 57 | 11 23 | 1 13 | 23 38 | 2 53 | 4 11 | 11 28 |
| 7 | 1 50 | 11 3 | 1 21 | 24 10 | 3 5 | 4 55 | 11 18 |
| 10 | 1 44 | 10 43 | 1 27 | 24 38 | 3 10 | 5 56 | 11 4 |
| 13 | 1 38 | 10 17 | 1 34 | 24 54 | 3 10 | 7 10 | 10 54 |
| 16 | 1 32 | 9 51 | 1 41 | 25 8 | 3 3 | 8 37 | 10 45 |
| 19 | 1 26 | 9 25 | 1 46 | 25 13 | 2 51 | 10 14 | 10 35 |
| 22 | 1 21 | 8 57 | 1 50 | 25 14 | 2 34 | 11 58 | 10 26 |
| 25 | 1 16 | 8 28 | 1 55 | 25 6 | 2 13 | 13 49 | 10 16 |
| 28 | 1 11 | 7 58 | 1 58 | 24 49 | 1 47 | 15 43 | 10 7 |
| 31 | 1 6 | 7 24 | 2 0 | 24 32 | 1 18 | 17 37 | 9 57 |

| D
M | ♂ | | ♀ | | ♂ | | ♀ | | ♂ | | ♀ | | Mutual | | Lunar Aspects. | | | | | | |
|--------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|--------|---|----------------|---|---|---|---|---|---|
| | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Aspts. | ☉ | ☽ | ☿ | ♂ | ♀ | ♂ | ♀ | |
| 1 | 6 | 57 | 10 | 45 | 4 | 39 | 9 | 50 | 15 | 28 | 2 | 28 | ♀ Δ ♀ | | Δ | | | ♂ | | | |
| 2 | 6 | 53 | 10 | 50 | 4 | 50 | 11 | 3 | 16 | 1 | 16 | ☉ □ ♀ | * | | Δ | | | □ | | | |
| 3 | 6 | 48 | 10 | 55 | 5 | 2 | 12 | 15 | 16 | 40 | | | | | | | | | | | |
| 4 | 6 | 44 | 11 | 0 | 5 | 14 | 13 | 27 | 17 | 25 | | | | | | | * | | | | |
| 5 | 6 | 39 | 11 | 5 | 5 | 27 | 14 | 39 | 18 | 12 | | | | | | | | * | ♂ | | |
| 6 | 6 | 35 | 11 | 10 | 5 | 40 | 15 | 51 | 19 | 1 | | | | | ♂ | ♂ | ♂ | □ | Δ | | |
| 7 | 6 | 30 | 11 | 15 | 5 | 54 | 17 | 3 | 19 | 52 | | | | ♂ | | | | | | | |
| 8 | 6 | 26 | 11 | 19 | 6 | 8 | 18 | 15 | 20 | 47 | | | | | | | | | | | |
| 9 | 6 | 21 | 11 | 23 | 6 | 23 | 19 | 27 | 21 | 46 | ♂ * ♀ | | | | | | | Δ | □ | | |
| 10 | 6 | 17 | 11 | 27 | 6 | 39 | 20 | 39 | 22 | 49 | | | | | Δ | | | | | ♂ | * |
| 11 | 6 | 12 | 11 | 31 | 6 | 55 | 21 | 51 | 23 | 52 | | | | | | | | Δ | | * | |
| 12 | 6 | 8 | 11 | 35 | 7 | 12 | 23 | 3 | 25 | 0 | | | | * | | | | | | | |
| 13 | 6 | 3 | 11 | 38 | 7 | 29 | 24 | 14 | 26 | 12 | | | | | □ | □ | | | | | □ |
| 14 | 5 | 58 | 11 | 41 | 7 | 46 | 25 | 26 | 27 | 26 | | | | □ | | | ♂ | | | | |
| 15 | 5 | 54 | 11 | 44 | 8 | 4 | 26 | 37 | 28 | 42 | ♀ ♂ ☿ | | | * | * | | | * | | Δ | |
| 16 | 5 | 50 | 11 | 47 | 8 | 22 | 27 | 49 | 29 | 59 | ♀ Δ ☿ | | | Δ | | | | | ♂ | □ | |
| 17 | 5 | 46 | 11 | 50 | 8 | 41 | 29 | 0 | 18 | 19 | | | | | | | | | | □ | |
| 18 | 5 | 42 | 11 | 53 | 9 | 0 | 0 | 11 | 2 | 42 | | | | | | | | Δ | | | |
| 19 | 5 | 38 | 11 | 56 | 9 | 19 | 1 | 22 | 4 | 9 | | | | ♂ | | | | | Δ | ♂ | |
| 20 | 5 | 34 | 11 | 58 | 9 | 38 | 2 | 33 | 5 | 38 | ♀ ♂ ♀ | | | | | ♂ | ♂ | □ | * | | |
| 21 | 5 | 30 | 12 | 0 | 9 | 58 | 3 | 44 | 7 | 8 | | | | ♂ | | | | | | | |
| 22 | 5 | 26 | 12 | 2 | 10 | 19 | 4 | 55 | 8 | 40 | ♀ Δ ♀ | | | | | | * | □ | | | |
| 23 | 5 | 22 | 12 | 4 | 10 | 40 | 6 | 6 | 10 | 15 | ♀ Δ ♂ | | | * | | | | | | | |
| 24 | 5 | 18 | 12 | 6 | 11 | 1 | 7 | 17 | 11 | 52 | ♀ □ ♀ | | | | * | | | Δ | ♂ | Δ | |
| 25 | 5 | 15 | 12 | 7 | 11 | 23 | 8 | 28 | 13 | 32 | | | | | | | | | | | |
| 26 | 5 | 11 | 12 | 8 | 11 | 43 | 9 | 39 | 15 | 14 | | | | | Δ | □ | □ | | | | |
| 27 | 5 | 8 | 12 | 8 | 12 | 7 | 10 | 49 | 16 | 59 | | | | | | | ♂ | | | | □ |
| 28 | 5 | 4 | 12 | 9 | 12 | 30 | 12 | 0 | 18 | 46 | ♀ * ♂ | | | | | Δ | Δ | | ♂ | Δ | |
| 29 | 5 | 1 | 12 | 9 | 12 | 53 | 13 | 10 | 20 | 35 | | | | □ | | | Δ | | | | * |
| 30 | 4 | 57 | 12 | 10 | 13 | 16 | 14 | 21 | 22 | 26 | | | | | | | | | | | |
| 31 | 4 | 54 | 12 | 10 | 13 | 40 | 15 | 31 | 24 | 19 | | | | | | | | | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 34 | 9 S 47 | 2 N 37 | 10 S 40 | 0 S 35 | 17 S 44 |
| 4 | 15 | 48 | 0 34 | 9 46 | 2 37 | 10 37 | 0 36 | 17 45 |
| 7 | 15 | 47 | 0 34 | 9 45 | 2 36 | 10 35 | 0 37 | 17 46 |
| 10 | 15 | 47 | 0 34 | 9 43 | 2 36 | 10 33 | 0 38 | 17 48 |
| 18 | 15 | 46 | 0 33 | 9 42 | 2 35 | 10 32 | 0 38 | 17 51 |
| 16 | 15 | 46 | 0 33 | 9 41 | 2 35 | 10 30 | 0 39 | 17 54 |
| 19 | 15 | 46 | 0 33 | 9 40 | 2 34 | 10 29 | 0 40 | 17 57 |
| 22 | 15 | 46 | 0 33 | 9 39 | 2 33 | 10 28 | 0 40 | 18 1 |
| 25 | 15 | 46 | 0 33 | 9 39 | 2 32 | 10 27 | 0 41 | 18 5 |
| 28 | 15 | 45 | 0 33 | 9 38 | 2 32 | 10 27 | 0 41 | 18 9 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♃
Long. |
|--------|--------|-------------------|------------|---------------|--------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 4 36 12 | 9 ♀ 59 59 | 21 N 58 | 14 ♀ 45 | 4 N 20 | 9 N 49 | 26 ♀ 43 |
| 2 | Tu | 4 40 8 | 10 57 27 | 22 6 26 56 | 3 36 13 45 | 26 ♀ 42 | | |
| 3 | W | 4 44 5 | 11 54 54 | 22 14 9 21 | 2 41 17 10 | 26 41 | | |
| 4 | Th | 4 48 2 | 12 52 21 | 22 21 22 1 | 1 37 19 51 | 26 39 | | |
| 5 | F | 4 51 58 | 13 49 46 | 22 29 4 ♀ 57 | 0 27 21 35 | 26 38 | | |
| 6 | S | 4 55 55 | 14 47 11 | 22 36 18 11 | 0 S 46 22 10 | 26 36 | | |
| 7 | S | 4 59 51 | 15 44 35 | 22 42 1 ♀ 42 | 1 58 21 29 | 26 35 | | |
| 8 | M | 5 3 48 | 16 41 58 | 22 48 15 27 | 3 5 19 30 | 26 34 | | |
| 9 | Tu | 5 7 44 | 17 39 20 | 22 53 29 24 | 4 1 16 22 | 26 32 | | |
| 10 | W | 5 11 41 | 18 36 41 | 22 58 13 ♀ 30 | 4 44 12 15 | 26 30 | | |
| 11 | Th | 5 15 38 | 19 34 2 | 23 3 27 42 | 5 9 7 26 | 26 29 | | |
| 12 | F | 5 19 34 | 20 31 21 | 23 7 11 ♀ 56 | 5 16 2 3 | 26 28 | | |
| 13 | S | 5 23 31 | 21 28 39 | 23 11 26 11 | 5 4 3 S 17 | 26 27 | | |
| 14 | S | 5 27 28 | 22 25 57 | 23 15 10 ♀ 23 | 4 32 8 27 | 26 26 | | |
| 15 | M | 5 31 24 | 23 23 13 | 23 18 24 30 | 3 45 13 0 | 26 25 | | |
| 16 | Tu | 5 35 21 | 24 20 29 | 23 20 8 m 30 | 2 44 16 57 | 26 24 | | |
| 17 | W | 5 39 17 | 25 17 44 | 23 23 22 21 | 1 35 19 54 | 26 23 | | |
| 18 | Th | 5 43 13 | 26 14 58 | 23 25 6 ♀ 0 | 0 21 21 40 | 26 22 | | |
| 19 | F | 5 47 10 | 27 12 12 | 23 26 19 26 | 0 N 53 22 10 | 26 21 | | |
| 20 | S | 5 51 6 | 28 9 25 | 23 27 2 w 38 | 2 3 21 23 | 26 20 | | |
| 21 | S | 5 55 3 | 29 6 38 | 23 28 15 34 | 3 5 19 30 | 26 19 | | |
| 22 | M | 5 58 59 | 0 ♀ 3 51 | 23 28 28 15 | 3 56 16 40 | 26 18 | | |
| 23 | Tu | 6 2 56 | 1 1 3 | 23 27 10 m 42 | 4 35 13 9 | 26 18 | | |
| 24 | W | 6 6 52 | 1 58 15 | 23 27 22 55 | 5 1 9 9 | 26 17 | | |
| 25 | Th | 6 10 49 | 2 55 28 | 23 26 4 x 59 | 5 13 4 50 | 26 16 | | |
| 26 | F | 6 14 46 | 3 52 40 | 23 24 16 54 | 5 11 0 24 | 26 16 | | |
| 27 | S | 6 18 42 | 4 49 52 | 23 22 28 47 | 4 57 4 N 3 | 26 15 | | |
| 28 | S | 6 22 38 | 5 47 5 | 23 20 10 ♀ 42 | 4 29 8 22 | 26 15 | | |
| 29 | M | 6 26 35 | 6 44 18 | 23 17 22 43 | 3 49 12 23 | 26 14 | | |
| 30 | Tu | 6 30 32 | 7 41 31 | 23 14 4 55 | 2 59 15 59 | 26 14 | | |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 4 | 7 N 15 | 2 S 2 | 24 N 26 | 1 S 7 | 18 N 14 | 9 53 |
| 4 | 0 59 | 6 42 | 2 5 | 23 56 | 0 35 | 20 3 | 9 43 |
| 7 | 0 55 | 6 9 | 2 5 | 23 26 | 0 8 | 21 42 | 9 34 |
| 10 | 0 50 | 5 34 | 2 5 | 22 46 | 0 N 29 | 23 6 | 9 24 |
| 13 | 0 46 | 4 58 | 2 5 | 22 4 | 0 58 | 24 9 | 9 15 |
| 16 | 0 43 | 4 20 | 2 3 | 21 13 | 1 21 | 24 48 | 9 5 |
| 19 | 0 38 | 3 44 | 2 1 | 20 21 | 1 39 | 25 2 | 8 56 |
| 22 | 0 34 | 3 6 | 1 57 | 19 21 | 1 51 | 24 52 | 8 46 |
| 25 | 0 30 | 2 27 | 1 53 | 18 21 | 1 55 | 24 19 | 8 37 |
| 28 | 0 26 | 1 47 | 1 46 | 17 17 | 1 54 | 23 28 | 8 27 |

| D
M | h ♄ | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 4 m 50 | 12 w 10 | 14 w 4 | 16 s 41 | 26 s 15 | | | * | | | | * | | ☐ |
| 2 | 4 R 47 | 12 R 10 | 14 29 | 17 52 | 28 11 | | | | ♂ | | | | | |
| 3 | 4 41 | 12 9 | 14 54 | 19 2 | 0 11 | | ☉ Δ ♄ | | | ♂ | | ☐ | Δ | |
| 4 | 4 41 | 12 9 | 15 19 | 20 12 | 2 15 | | | | | | | | | * |
| 5 | 4 38 | 12 8 | 15 44 | 21 22 | 4 20 | | | | | | | | | ♂ |
| 6 | 4 35 | 12 7 | 16 9 | 22 32 | 6 26 | | | ♂ | | | | Δ | ☐ | |
| 7 | 4 32 | 12 6 | 16 35 | 23 42 | 8 32 | | | | Δ | Δ | | | | |
| 8 | 4 29 | 12 5 | 17 2 | 24 51 | 10 40 | | ♀ Δ ♄ | | | | | | * | |
| 9 | 4 27 | 12 3 | 17 28 | 26 1 | 12 50 | | ☉ ☐ ♂ | | ☐ | ☐ | | | | ♂ |
| 10 | 4 24 | 12 1 | 17 55 | 27 10 | 15 1 | | ♀ ☐ ☿ | * | | | | ♂ | | * |
| 11 | 4 22 | 11 59 | 18 22 | 28 20 | 1 7 | 12 | | | * | * | | | | |
| 12 | 4 19 | 11 57 | 18 48 | 29 29 | 19 24 | | ♀ ☐ ♂ | | | | | | ♂ | |
| 13 | 4 17 | 11 55 | 19 15 | 0 Ω | 38 21 | 38 | ☉ ♂ ♀ | ☐ | | | | | * | ☐ |
| 14 | 4 14 | 11 52 | 19 43 | 1 47 | 23 48 | | | | | | | Δ | | |
| 15 | 4 12 | 11 49 | 20 11 | 2 56 | 25 59 | | | Δ | ♂ | | | | | Δ |
| 16 | 4 10 | 11 46 | 20 39 | 4 5 | 28 10 | | ♀ Δ ☿ | | | ♂ | | ☐ | | ☐ |
| 17 | 4 8 | 11 43 | 21 7 | 5 14 | 0 s 20 | | ♀ ☐ ♈ | | | | | | * | |
| 18 | 4 6 | 11 40 | 21 35 | 6 23 | 2 29 | | ☉ Δ ☿ | | | | | * | | Δ |
| 19 | 4 4 | 11 37 | 22 4 | 7 31 | 4 36 | | ♀ Δ ♈ | | | | | | ☐ | |
| 20 | 4 2 | 11 33 | 22 34 | 8 39 | 6 42 | | | ♂ | * | * | | | | * |
| 21 | 4 1 | 11 29 | 23 2 | 9 47 | 8 46 | | | | | | | | | |
| 22 | 3 59 | 11 25 | 23 32 | 10 55 | 10 49 | | ♀ ♂ ♄ | | ☐ | ☐ | | ♂ | Δ | ♂ |
| 23 | 3 58 | 11 21 | 24 1 | 12 3 | 12 50 | | | | | | | | | |
| 24 | 3 56 | 11 17 | 24 30 | 13 11 | 14 49 | | | | Δ | | | | | |
| 25 | 3 55 | 11 13 | 25 0 | 14 19 | 16 45 | | | Δ | | Δ | | | | |
| 26 | 3 54 | 11 8 | 25 31 | 15 27 | 18 39 | | ☉ Δ ♈ | | | | | | | Δ |
| 27 | 3 53 | 11 4 | 26 1 | 16 34 | 20 32 | | | | | | | | ♂ | |
| 28 | 3 52 | 10 59 | 26 32 | 17 42 | 22 23 | | | ☐ | | | | * | | |
| 29 | 3 51 | 10 54 | 27 2 | 18 49 | 24 12 | | | | ♂ | | | | | Δ |
| 30 | 3 50 | 10 49 | 27 33 | 19 56 | 25 58 | | ♀ ☐ ☿ | * | | ♂ | | ☐ | | ☐ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 33 | 9 S 38 | 2 N 30 | 10 S 27 | 0 S 42 | 18 S 14 |
| 4 | 15 | 45 | 0 33 | 9 38 | 2 30 | 10 27 | 0 42 | 18 20 |
| 7 | 15 | 45 | 0 33 | 9 39 | 2 29 | 10 27 | 0 43 | 18 25 |
| 10 | 15 | 46 | 0 33 | 9 39 | 2 28 | 10 28 | 0 44 | 18 31 |
| 13 | 15 | 46 | 0 33 | 9 40 | 2 27 | 10 29 | 0 45 | 18 37 |
| 16 | 15 | 46 | 0 32 | 9 40 | 2 27 | 10 30 | 0 45 | 18 43 |
| 19 | 15 | 46 | 0 32 | 9 41 | 2 26 | 10 32 | 0 46 | 18 49 |
| 22 | 15 | 46 | 0 32 | 9 41 | 2 25 | 10 34 | 0 46 | 18 55 |
| 25 | 15 | 47 | 0 32 | 9 42 | 2 24 | 10 37 | 0 47 | 19 2 |
| 28 | 15 | 47 | 0 32 | 9 44 | 2 24 | 10 40 | 0 47 | 19 8 |
| 31 | 15 | 47 | 0 32 | 9 45 | 2 23 | 10 43 | 0 47 | 19 15 |

| D
M | D
W | Siderea ¹
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------------------|-----------------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 6 34 28 | 8 ⁵⁵ 38 44 | 23 N 11 | 17 8 23 | 1 N 59 | 18 N 56 | 26 14 |
| 2 | Th | 6 38 25 | 9 35 57 | 23 7 0 | 10 10 | 0 51 | 21 2 | 26 13 |
| 3 | F | 6 42 22 | 10 33 11 | 23 3 13 | 18 0 S 20 | 22 5 | 26 13 | |
| 4 | S | 6 46 18 | 11 30 25 | 22 58 26 | 49 1 33 | 21 53 | 26 13 | |
| 5 | S | 6 50 15 | 12 27 39 | 22 52 10 | 54 2 42 | 20 21 | 26 13 | |
| 6 | M | 6 54 11 | 13 24 52 | 22 47 24 | 52 3 42 | 17 32 | 26 D 14 | |
| 7 | Tu | 6 58 7 | 14 22 6 | 22 41 9 | 17 4 29 | 13 37 | 26 14 | |
| 8 | W | 7 2 4 | 15 19 20 | 22 35 23 | 50 5 0 | 8 52 | 26 14 | |
| 9 | Th | 7 6 1 | 16 16 34 | 22 28 8 | 24 5 11 | 3 37 | 26 14 | |
| 10 | F | 7 9 58 | 17 13 48 | 22 21 22 | 54 5 2 | 1 S 48 | 26 14 | |
| 11 | S | 7 13 54 | 18 11 2 | 22 14 7 | 14 4 34 | 7 4 | 26 15 | |
| 12 | S | 7 17 50 | 19 8 15 | 22 6 21 | 23 3 50 | 11 54 | 26 16 | |
| 13 | M | 7 21 46 | 20 5 29 | 21 57 5 | 18 2 53 | 16 1 | 26 16 | |
| 14 | Tu | 7 25 43 | 21 2 43 | 21 49 19 | 0 1 47 | 19 12 | 26 17 | |
| 15 | W | 7 29 40 | 21 59 56 | 21 40 2 | 28 0 36 | 21 16 | 26 18 | |
| 16 | Th | 7 33 36 | 22 57 10 | 21 30 15 | 43 0 N 35 | 22 6 | 26 18 | |
| 17 | F | 7 37 33 | 23 54 25 | 21 21 28 | 46 1 44 | 21 43 | 26 19 | |
| 18 | S | 7 41 30 | 24 51 39 | 21 11 11 | 37 2 46 | 20 12 | 26 20 | |
| 19 | S | 7 45 27 | 25 48 54 | 21 0 24 | 16 3 39 | 17 41 | 26 20 | |
| 20 | M | 7 49 23 | 26 46 9 | 20 49 6 | 45 4 20 | 14 24 | 26 21 | |
| 21 | Tu | 7 53 20 | 27 43 25 | 20 38 19 | 2 4 49 | 10 33 | 26 22 | |
| 22 | W | 7 57 16 | 28 40 42 | 20 27 1 | 10 5 4 | 6 20 | 26 23 | |
| 23 | Th | 8 1 13 | 29 37 59 | 20 15 13 | 9 5 5 | 1 56 | 26 24 | |
| 24 | F | 8 5 9 | 0 ⁵⁵ 35 17 | 20 3 25 | 3 4 53 | 2 N 31 | 26 25 | |
| 25 | S | 8 9 6 | 1 32 37 | 19 50 6 | 55 4 29 | 6 52 | 26 26 | |
| 26 | S | 8 13 3 | 2 29 57 | 19 37 18 | 48 3 53 | 10 58 | 26 27 | |
| 27 | M | 8 16 59 | 3 27 18 | 19 24 0 | 47 3 7 | 14 40 | 26 28 | |
| 28 | Tu | 8 20 55 | 4 24 40 | 19 11 12 | 57 2 11 | 17 49 | 26 29 | |
| 29 | W | 8 24 52 | 5 22 4 | 18 57 25 | 23 1 8 | 20 14 | 26 30 | |
| 30 | Th | 8 28 49 | 6 19 28 | 18 43 8 | 10 0 S 0 | 21 41 | 26 31 | |
| 31 | F | 8 32 45 | 7 16 54 | 18 28 21 | 21 1 10 | 22 1 | 26 32 | |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 23 | 1 N 7 | 1 N 41 | 16 N 5 | 1 N 46 | 22 N 23 | 8 ↑ 18 |
| 4 | 0 19 | 0 26 | 1 33 | 14 56 | 1 32 | 21 5 | 8 8 |
| 7 | 0 16 | 0 8 15 | 1 25 | 13 37 | 1 15 | 19 39 | 7 59 |
| 10 | 0 13 | 0 57 | 1 14 | 12 18 | 0 53 | 18 7 | 7 49 |
| 13 | 0 9 | 1 39 | 1 5 | 10 59 | 0 26 | 16 33 | 7 40 |
| 16 | 0 7 | 2 23 | 0 52 | 9 41 | 0 8 4 | 14 57 | 7 30 |
| 19 | 0 3 | 3 5 | 0 41 | 8 13 | 0 37 | 13 23 | 7 21 |
| 22 | 0 1 | 3 43 | 0 26 | 6 51 | 1 12 | 11 53 | 7 11 |
| 25 | 0 8 3 | 4 32 | 0 13 | 5 23 | 1 49 | 10 30 | 7 2 |
| 28 | 0 5 | 5 17 | 0 8 3 | 3 53 | 2 27 | 9 16 | 6 52 |
| 31 | 0 3 | 6 3 | 0 20 | 2 32 | 3 5 | 8 15 | 6 43 |

| D
M | h | ♂
Long. | ♀
Long. | ♂
Long. | ♀
Long. | ♂
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | | | |
|--------|-----------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|---|---|
| | | | | | | | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ | |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | | | | |
| 1 | 3 m 49 | 10 m 41 | 28 m 4 | 21 Ω 3 | 27 Ω 42 | ♀ * ♂ | | | | | | | | ☐ | | |
| 2 | 3 R 48 | 10 R 39 | 28 35 22 | 10 29 25 | | | | | | | | | | Δ | | * |
| 3 | 3 48 10 | 33 29 | 7 23 | 16 1 Ω 5 | | | | | | | | | Δ | | | |
| 4 | 3 47 10 | 27 29 | 39 24 | 23 2 42 | | | | | Δ | | | | | ☐ | * | |
| 5 | 3 47 10 | 21 0 Δ 11 | 25 29 | 4 17 | ♀ ☐ h | ♂ | | ♂ | | Δ | | | | | | |
| 6 | 3 47 10 | 15 0 | 43 26 | 35 5 51 | ♀ * h | | | | ☐ | | | | | | | |
| 7 | 3 D 47 10 | 9 1 | 15 27 | 41 7 23 | | | | | | | ☐ | ♂ | * | | | ♂ |
| 8 | 3 47 10 | 2 1 | 47 23 | 47 8 53 | | | | | * | | | | | | ♂ | |
| 9 | 3 47 9 | 56 2 | 20 39 | 52 10 20 | ♀ ♂ ♀ | | | | | * | | | | | | |
| 10 | 3 48 9 | 49 2 | 52 0 m 58 | 11 45 | | | | * | | | | | | | | |
| 11 | 3 48 9 | 43 3 | 25 2 | 3 13 8 | | | | | | | | | Δ | ♂ | | * |
| 12 | 3 48 9 | 36 3 | 58 3 | 9 14 28 | ♀ * h | | ☐ | ♂ | | | | | | ♂ | | |
| 13 | 3 48 9 | 29 4 | 31 4 | 14 15 46 | | | | | | | ♂ | ☐ | | | * | |
| 14 | 3 50 9 | 22 5 | 4 5 | 18 17 2 | | | | Δ | | | | | | | | ☐ |
| 15 | 3 50 9 | 15 5 | 38 6 | 22 18 15 | | | | | | | | | | * | ☐ | |
| 16 | 3 51 9 | 8 6 | 12 7 | 26 19 26 | | | | | | | * | * | | | | Δ |
| 17 | 3 51 9 | 1 6 | 46 8 | 30 20 34 | | | | | * | * | | | | | | |
| 18 | 3 52 8 | 54 7 | 20 9 | 34 21 39 | | | | | | | | | | | ☐ | Δ |
| 19 | 3 52 8 | 46 7 | 54 10 | 38 22 42 | | | | | ♂ | ☐ | | | | | | |
| 20 | 3 54 8 | 39 8 | 28 11 | 41 23 42 | ☉ ☐ h | | | | | | ☐ | ♂ | Δ | | | |
| 21 | 3 56 8 | 31 9 | 3 12 | 43 24 39 | ♂ Δ ♀ | | | | | | | | | | | ♂ |
| 22 | 3 57 8 | 24 9 | 37 13 | 46 25 34 | | | | | Δ | Δ | | | | | | |
| 23 | 3 59 8 | 16 10 | 12 14 | 48 26 28 | ♀ * h | | | | | | | | | | ♂ | |
| 24 | 4 0 8 | 9 10 | 46 15 | 50 27 15 | | | | | | | | | | | | |
| 25 | 4 2 8 | 1 11 | 21 16 | 52 27 56 | | | | Δ | | | | * | ♂ | | | |
| 26 | 4 4 7 | 54 11 | 57 17 | 53 28 35 | | | | | | | | | | | | |
| 27 | 4 6 7 | 46 12 | 32 18 | 54 29 12 | | | | | ☐ | ♂ | ♂ | | | | | Δ |
| 28 | 4 8 7 | 38 13 | 8 19 | 55 29 47 | ☉ ☐ h | | | | | | | | ☐ | | | |
| 29 | 4 10 7 | 30 13 | 43 20 | 56 0 m 17 | | | | | | | | | | | Δ | ☐ |
| 30 | 4 12 7 | 22 14 | 19 21 | 57 0 41 | | | | * | | | | | Δ | Δ | | |
| 31 | 4 14 7 | 14 14 | 54 22 | 58 0 59 | ☉ ♂ ♀ | | | Δ | | | | | | | ☐ | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 31 | 9 S 46 | 2 N 22 | 10 S 43 | 0 S 48 | 19 S 19 |
| 4 | 15 | 47 | 0 31 | 9 48 | 2 22 | 10 46 | 0 49 | 19 21 |
| 7 | 15 | 48 | 0 31 | 9 50 | 2 21 | 10 50 | 0 48 | 19 29 |
| 10 | 15 | 48 | 0 31 | 9 52 | 2 20 | 10 54 | 0 49 | 19 35 |
| 13 | 15 | 49 | 0 31 | 9 54 | 2 19 | 10 58 | 0 49 | 19 41 |
| 16 | 15 | 49 | 0 31 | 9 56 | 2 19 | 11 2 | 0 49 | 19 46 |
| 19 | 15 | 50 | 0 31 | 9 58 | 2 18 | 11 6 | 0 49 | 19 52 |
| 22 | 15 | 50 | 0 31 | 10 0 | 2 17 | 11 11 | 0 49 | 19 57 |
| 25 | 15 | 51 | 0 31 | 10 2 | 2 16 | 11 16 | 0 49 | 20 1 |
| 28 | 15 | 51 | 0 31 | 10 5 | 2 16 | 11 21 | 0 49 | 20 5 |
| 31 | 15 | 52 | 0 31 | 10 8 | 2 15 | 11 26 | 0 49 | 20 9 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 8 36 42 | 8 Ω 14 21 | 18 N 13 | 5 Ω 0 | 2 S 18 | 21 N 4 | 26 Δ 32 |
| 2 | S | 8 40 39 | 9 11 48 | 17 58 | 19 5 | 3 20 | 18 48 | 26 33 |
| 3 | M | 8 44 35 | 10 9 17 | 17 43 | 3 Ω 35 | 4 11 | 15 18 | 26 34 |
| 4 | Tu | 8 48 31 | 11 6 47 | 17 27 | 18 23 | 4 46 | 10 47 | 26 35 |
| 5 | W | 8 52 28 | 12 4 18 | 17 11 | 3 ♉ 21 | 5 2 | 5 35 | 26 37 |
| 6 | Th | 8 56 25 | 13 1 49 | 16 55 | 18 19 | 4 58 | 0 3 | 26 39 |
| 7 | F | 9 0 21 | 13 59 22 | 16 39 | 3 Δ 9 | 4 33 | 5 S 26 | 26 41 |
| 8 | S | 9 4 17 | 14 56 56 | 16 22 | 17 43 | 3 51 | 10 31 | 26 43 |
| 9 | S | 9 8 14 | 15 54 30 | 16 5 | 1 ♉ 59 | 2 56 | 14 55 | 26 46 |
| 10 | M | 9 12 11 | 16 52 5 | 15 48 | 15 53 | 1 51 | 18 22 | 26 48 |
| 11 | Tu | 9 16 8 | 17 49 41 | 15 30 | 29 26 | 0 41 | 20 43 | 26 50 |
| 12 | W | 9 20 4 | 18 47 18 | 15 12 | 12 ♊ 41 | 0 N 29 | 21 51 | 26 52 |
| 13 | Th | 9 24 1 | 19 44 56 | 14 54 | 25 40 | 1 36 | 21 47 | 26 55 |
| 14 | F | 9 27 57 | 20 42 34 | 14 36 | 5 ♋ 25 | 2 38 | 20 34 | 26 57 |
| 15 | S | 9 31 53 | 21 40 14 | 14 18 | 20 58 | 3 30 | 18 22 | 27 0 |
| 16 | S | 9 35 50 | 22 37 55 | 13 59 | 3 ♋ 21 | 4 11 | 15 21 | 27 2 |
| 17 | M | 9 39 47 | 23 35 37 | 13 40 | 15 36 | 4 41 | 11 42 | 27 4 |
| 18 | Tu | 9 43 43 | 24 33 20 | 13 21 | 27 43 | 4 57 | 7 38 | 27 6 |
| 19 | W | 9 47 39 | 25 31 5 | 13 2 | 9 ♋ 44 | 5 0 | 3 18 | 27 8 |
| 20 | Th | 9 51 36 | 26 28 51 | 12 42 | 21 39 | 4 49 | 1 N 7 | 27 10 |
| 21 | F | 9 55 33 | 27 26 30 | 12 22 | 3 ♋ 31 | 4 26 | 5 28 | 27 12 |
| 22 | S | 9 59 29 | 28 24 28 | 12 2 | 15 21 | 3 52 | 9 37 | 27 14 |
| 23 | S | 10 3 26 | 29 22 19 | 11 42 | 27 13 | 3 8 | 13 24 | 27 16 |
| 24 | M | 10 7 22 | 0 ♋ 20 12 | 11 22 | 9 10 | 2 14 | 16 41 | 27 18 |
| 25 | Tu | 10 11 19 | 1 18 7 | 11 1 | 21 18 | 1 14 | 19 18 | 27 21 |
| 26 | W | 10 15 15 | 2 16 3 | 10 41 | 3 ♋ 41 | 0 9 | 21 4 | 27 23 |
| 27 | Th | 10 19 13 | 3 14 1 | 10 20 | 16 24 | 0 S 57 | 21 49 | 27 25 |
| 28 | F | 10 23 9 | 4 12 1 | 9 59 | 29 31 | 2 4 | 21 34 | 27 28 |
| 29 | S | 10 27 5 | 5 10 4 | 9 38 | 13 8 | 3 5 | 19 45 | 27 31 |
| 30 | S | 10 31 1 | 6 8 8 | 9 16 | 27 14 | 3 57 | 16 51 | 27 34 |
| 31 | M | 10 34 58 | 7 6 14 | 8 55 | 11 Ω 48 | 4 36 | 12 50 | 27 36 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 08 9 | 68 15 | 08 25 | 2 N 1 | 38 17 | 7 N 58 | 6 40 |
| 4 | 0 12 | 6 59 | 0 44 | 0 36 | 3 51 | 7 20 | 6 30 |
| 7 | 0 15 | 7 43 | 1 2 | 0 52 | 4 20 | 7 5 | 6 21 |
| 10 | 0 17 | 8 28 | 1 26 | 2 18 | 4 40 | 7 14 | 6 11 |
| 13 | 0 20 | 9 12 | 1 43 | 3 43 | 4 47 | 7 50 | 6 2 |
| 16 | 0 22 | 9 56 | 2 7 | 5 4 | 4 38 | 8 47 | 5 52 |
| 19 | 0 24 | 10 40 | 2 27 | 6 28 | 4 13 | 9 59 | 5 43 |
| 22 | 0 27 | 11 23 | 2 52 | 7 45 | 3 33 | 11 19 | 5 33 |
| 25 | 0 29 | 12 6 | 3 14 | 9 5 | 2 42 | 12 33 | 5 24 |
| 28 | 0 31 | 12 48 | 3 42 | 10 13 | 1 47 | 13 30 | 5 14 |
| 31 | 0 33 | 13 34 | 4 6 | 11 21 | 0 53 | 14 4 | 5 5 |

| D
M | h | ° | ♂ | ♀ | ♂ | Mutual Lunar Aspects. | | | | | | |
|--------|------|------|-------|-------|-------|-----------------------|---|---|---|---|---|-----|
| | | | | | | Aspts. | ☉ | ♂ | ♂ | ♂ | ♀ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 4 16 | 7 6 | 15 30 | 23 58 | 1 15 | | | | Δ | | | * |
| 2 | 4 18 | 6 58 | 16 34 | 58 | 1 27 | | | | | | □ | * |
| 3 | 4 21 | 6 50 | 16 42 | 25 57 | 1 32 | | ♂ | □ | □ | ♂ | | * |
| 4 | 4 23 | 6 43 | 17 19 | 26 56 | 1 31 | | | | | | * | |
| 5 | 4 26 | 6 35 | 17 55 | 27 54 | 1 25 | | | * | ☿ | | | ♂ |
| 6 | 4 28 | 6 27 | 18 31 | 28 51 | 1 14 | | | | | | | |
| 7 | 4 31 | 6 20 | 19 8 | 29 48 | 0 58 | | | | | ♂ | | |
| 8 | 4 34 | 6 12 | 19 45 | 0 45 | 0 37 | | * | | | | | |
| 9 | 4 37 | 6 5 | 20 22 | 1 42 | 0 11 | | | ♂ | ♂ | ☿ | | * |
| 10 | 4 40 | 5 57 | 20 59 | 2 38 | 29 40 | | □ | | | | | |
| 11 | 4 43 | 5 50 | 21 36 | 3 33 | 29 4 | | | | | * | * | □ |
| 12 | 4 46 | 5 42 | 22 13 | 4 28 | 28 23 | | | | | | * | |
| 13 | 4 50 | 5 35 | 23 51 | 5 22 | 27 38 | ♀ Δ ♀ | Δ | * | | | * | Δ |
| 14 | 4 53 | 5 27 | 23 28 | 6 16 | 26 51 | ♀ * ☿ | | | * | | □ | |
| 15 | 4 57 | 5 20 | 24 6 | 7 9 | 26 2 | | | □ | | | □ | |
| 16 | 5 0 | 5 13 | 24 44 | 8 2 | 25 10 | ♂ □ ♀ | | | □ | ♂ | | Δ |
| 17 | 5 4 | 5 6 | 25 21 | 8 55 | 24 18 | ☉ ♂ ♀ | | | | | | |
| 18 | 5 8 | 4 59 | 25 59 | 9 47 | 23 26 | ♀ * ♂ | ♂ | Δ | | | Δ | ♂ |
| 19 | 5 12 | 4 52 | 26 37 | 10 38 | 22 36 | | | | Δ | | | |
| 20 | 5 16 | 4 45 | 27 15 | 11 29 | 21 49 | ♂ ☿ ☿ | | | | | | |
| 21 | 5 20 | 4 39 | 27 53 | 12 17 | 21 6 | ☉ * ☿ | | | | * | | |
| 22 | 5 24 | 4 32 | 28 32 | 13 6 | 20 26 | ☉ * ♂ | | | | | | ♂ Δ |
| 23 | 5 28 | 4 26 | 29 10 | 13 54 | 19 52 | | Δ | ♂ | | | ♂ | |
| 24 | 5 32 | 4 19 | 29 48 | 14 42 | 19 25 | | | | ♂ | □ | | |
| 25 | 5 37 | 4 13 | 0 27 | 15 29 | 19 4 | | | | | | | ☿ |
| 26 | 5 42 | 4 7 | 1 6 | 16 16 | 18 49 | | | □ | | Δ | | |
| 27 | 5 46 | 4 1 | 1 45 | 17 2 | 18 14 | | | * | | | | Δ * |
| 28 | 5 51 | 3 56 | 2 24 | 17 46 | 18 48 | | | * | Δ | Δ | | Δ |
| 29 | 5 55 | 3 50 | 3 13 | 18 29 | 19 0 | | | | | | | □ |
| 30 | 6 0 | 3 45 | 3 42 | 19 11 | 19 20 | ☉ * ♀ | | | □ | ♂ | □ | |
| 31 | 6 4 | 3 39 | 4 21 | 19 52 | 10 47 | ♂ □ ♀ | | | □ | | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 15 | 54 | 0 N 30 | 10 S 11 | 2 N 15 | 11 11 | 0 S 50 | 20 S 11 |
| 4 | 15 | 54 | 0 30 | 10 14 | 2 15 | 11 33 | 0 50 | 20 14 |
| 7 | 15 | 55 | 0 30 | 10 17 | 2 14 | 11 39 | 0 50 | 20 16 |
| 10 | 15 | 56 | 0 30 | 10 21 | 2 14 | 11 45 | 0 50 | 20 20 |
| 13 | 15 | 57 | 0 30 | 10 24 | 2 13 | 11 50 | 0 50 | 20 22 |
| 16 | 15 | 57 | 0 30 | 10 28 | 2 13 | 11 56 | 0 50 | 20 24 |
| 19 | 15 | 58 | 0 30 | 10 30 | 2 12 | 12 2 | 0 50 | 20 26 |
| 22 | 15 | 59 | 0 30 | 10 33 | 2 12 | 12 8 | 0 50 | 20 27 |
| 25 | 16 | 0 | 0 30 | 10 36 | 2 11 | 12 15 | 0 50 | 20 27 |
| 28 | 16 | 0 | 0 30 | 10 40 | 2 11 | 12 21 | 0 50 | 20 27 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 10 38 55 | 8 4 21 | 8 N 38 | 26 2 46 | 4 S 57 | 7 N 58 | 27 39 |
| 2 | W | 10 42 51 | 9 2 30 | 8 11 11 | 26 58 | 4 58 | 2 29 | 27 42 |
| 3 | Th | 10 46 48 | 10 0 41 | 7 49 27 | 14 | 4 38 | 3 S 9 | 27 45 |
| 4 | F | 10 50 45 | 10 58 54 | 7 27 12 | 22 | 3 58 | 8 33 | 27 47 |
| 5 | S | 10 54 41 | 11 57 8 | 7 5 27 | 14 | 3 3 | 13 20 | 27 50 |
| 6 | S | 10 58 38 | 12 55 24 | 6 43 11 | 42 | 1 57 | 17 12 | 27 53 |
| 7 | M | 11 2 35 | 13 53 41 | 6 20 25 | 44 | 0 45 | 19 58 | 27 56 |
| 8 | Tu | 11 6 31 | 14 52 0 | 5 58 9 | 20 | 0 N 27 | 21 26 | 27 59 |
| 9 | W | 11 10 27 | 15 50 21 | 5 35 22 | 33 | 1 35 | 21 40 | 28 2 |
| 10 | Th | 11 14 24 | 16 48 43 | 5 13 5 | 24 | 2 37 | 20 44 | 28 6 |
| 11 | F | 11 18 21 | 17 47 6 | 4 50 18 | 0 | 3 29 | 18 47 | 28 9 |
| 12 | S | 11 22 17 | 18 45 31 | 4 27 0 | 22 | 4 11 | 16 0 | 28 11 |
| 13 | S | 11 26 13 | 19 43 57 | 4 4 12 | 34 | 4 41 | 12 34 | 28 14 |
| 14 | M | 11 30 10 | 20 42 26 | 3 41 34 | 38 | 4 57 | 8 39 | 28 17 |
| 15 | Tu | 11 34 7 | 21 40 56 | 3 18 6 | 37 | 5 1 | 4 26 | 28 20 |
| 16 | W | 11 38 4 | 22 39 27 | 2 55 18 | 31 | 4 51 | 0 5 | 28 24 |
| 17 | Th | 11 42 0 | 23 38 1 | 2 32 0 | 24 | 4 28 | 4 N 16 | 28 27 |
| 18 | F | 11 45 57 | 24 36 37 | 2 9 12 | 16 | 3 54 | 8 26 | 28 31 |
| 19 | S | 11 49 53 | 25 35 14 | 1 45 24 | 6 | 3 10 | 12 18 | 28 34 |
| 20 | S | 11 53 49 | 26 33 54 | 1 22 6 | 1 | 2 17 | 16 41 | 28 37 |
| 21 | | | | | | | | 41 |
| 22 | | | | | | | | 44 |
| 23 | | | | | | | | 48 |
| 24 | | | | | | | | 51 |
| 25 | | | | | | | | 54 |
| 26 | | | | | | | | 58 |
| 27 | | | | | | | | 6 |
| 28 | | | | | | | | 6 |
| 29 | | | | | | | | 9 |
| 30 | | | | | | | | 12 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 S 34 | 13 E 44 | 4 S 12 | 11 S 55 | 0 S 35 | 14 N 9 | 5 1 |
| 4 | 0 36 | 14 25 | 4 38 | 12 54 | 0 N 12 | 14 4 | 4 51 |
| 7 | 0 38 | 15 6 | 5 3 | 14 4 | 0 50 | 13 27 | 4 42 |
| 10 | 0 40 | 15 46 | 5 41 | 15 0 | 1 19 | 12 21 | 4 32 |
| 13 | 0 42 | 16 26 | 5 54 | 15 54 | 1 38 | 10 49 | 4 23 |
| 16 | 0 44 | 17 4 | 6 20 | 16 38 | 1 48 | 8 57 | 4 13 |
| 19 | 0 45 | 17 41 | 6 42 | 17 17 | 1 50 | 6 51 | 4 4 |
| 22 | 0 47 | 18 18 | 7 1 | 17 47 | 1 46 | 4 35 | 3 54 |
| 25 | 0 49 | 18 52 | 7 23 | 18 7 | 1 37 | 2 16 | 3 45 |
| 28 | 0 51 | 19 27 | 7 35 | 18 13 | 1 24 | 0 S 5 | 3 35 |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 30 | 10 S 44 | 2 N 10 | 12 S 28 | 0 S 49 | 20 S 27 |
| 4 | 16 | 1 | 0 30 | 10 49 | 2 10 | 12 34 | 0 49 | 20 27 |
| 7 | 16 | 2 | 0 30 | 10 53 | 2 9 | 12 41 | 0 49 | 20 26 |
| 10 | 16 | 3 | 0 30 | 10 57 | 2 9 | 12 48 | 0 49 | 20 25 |
| 13 | 16 | 4 | 0 30 | 11 0 | 2 8 | 12 54 | 0 49 | 20 23 |
| 16 | 16 | 5 | 0 30 | 11 4 | 2 8 | 13 1 | 0 49 | 20 20 |
| 19 | 16 | 5 | 0 30 | 11 7 | 2 8 | 13 8 | 0 49 | 20 17 |
| 22 | 16 | 6 | 0 30 | 11 10 | 2 8 | 13 15 | 0 48 | 20 14 |
| 25 | 16 | 7 | 0 30 | 11 14 | 2 7 | 13 21 | 0 48 | 20 11 |
| 28 | 16 | 7 | 0 30 | 11 18 | 2 7 | 13 28 | 0 48 | 20 8 |
| 31 | 16 | 8 | 0 30 | 11 22 | 2 7 | 13 35 | 0 48 | 20 4 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 12 37 11 | 7△21 42 | 2 S 55 | 5△26 | 4 S 16 | 6 S 4 | 29△15 |
| 2 | F | 12 41 8 | 8 20 48 | 3 19 20 | 42 | 3 22 11 | 13 | 29 18 |
| 3 | S | 12 45 5 | 9 19 57 | 3 42 5m | 43 | 2 15 15 | 34 | 29 22 |
| 4 | S | 12 49 2 | 10 19 8 | 4 5 20 | 23 | 1 1 18 | 51 | 29 26 |
| 5 | M | 12 52 58 | 11 18 20 | 4 29 4 | 37 | 0 N 15 | 20 50 | 29 29 |
| 6 | Tu | 12 56 54 | 12 17 35 | 4 52 18 | 22 | 1 28 21 | 29 | 29 32 |
| 7 | W | 13 0 51 | 13 16 51 | 5 14 1w | 41 | 2 34 20 | 53 | 29 36 |
| 8 | Th | 13 4 47 | 14 16 9 | 5 38 14 | 35 | 3 30 19 | 11 | 29 40 |
| 9 | F | 13 8 44 | 15 15 29 | 6 1 27 | 9 | 4 14 16 | 35 | 29 44 |
| 10 | S | 13 12 40 | 16 14 50 | 6 24 9m | 28 | 4 46 13 | 18 | 29 48 |
| 11 | S | 13 16 37 | 17 14 14 | 6 47 21 | 34 | 5 4 9 | 32 | 29 52 |
| 12 | M | 13 20 33 | 18 13 39 | 7 9 3x | 33 | 5 8 5 | 25 | 29 56 |
| 13 | Tu | 13 24 30 | 19 13 5 | 7 32 15 | 27 | 5 0 1 | 8 | 29 59 |
| 14 | W | 13 28 26 | 20 12 34 | 7 54 27 | 18 | 4 38 3 | N 11 | 0m 3 |
| 15 | Th | 13 32 23 | 21 12 5 | 8 17 9r | 10 | 4 4 7 | 22 | 0 7 |
| 16 | F | 13 36 20 | 22 11 37 | 8 40 21 | 4 | 3 20 11 | 18 | 0 10 |
| 17 | S | 13 40 16 | 23 11 12 | 9 1 38 | 1 | 2 26 14 | 49 | 0 14 |
| 18 | S | 13 44 13 | 24 10 49 | 9 23 15 | 3 | 1 26 17 | 44 | 0 18 |
| 19 | M | 13 48 10 | 25 10 27 | 9 45 27 | 12 | 0 20 19 | 53 | 0 22 |
| 20 | Tu | 13 52 6 | 26 10 8 | 10 7 9 | 30 | 0 S 47 | 21 8 | 0 25 |
| 21 | W | 13 56 3 | 27 9 52 | 10 28 22 | 0 | 1 53 21 | 21 | 0 29 |
| 22 | Th | 13 59 59 | 28 9 38 | 10 50 45 | 46 | 2 55 20 | 28 | 0 32 |
| 23 | F | 14 3 56 | 29 9 26 | 11 11 17 | 49 | 3 49 18 | 29 | 0 36 |
| 24 | S | 14 7 52 | 0m 9 16 | 11 32 12 | 14 | 4 32 15 | 28 | 0 40 |
| 25 | S | 14 11 48 | 1 9 9 | 11 53 15 | 2 | 5 2 11 | 32 | 0 43 |
| 26 | M | 14 15 44 | 2 9 8 | 12 14 29 | 14 | 5 13 6 | 51 | 0 47 |
| 27 | Tu | 14 19 40 | 3 9 0 | 12 34 13m | 47 | 5 6 1 | 41 | 0 51 |
| 28 | W | 14 23 36 | 4 8 59 | 12 55 28 | 38 | 4 38 3 | S 42 | 0 55 |
| 29 | Th | 14 27 32 | 5 9 1 | 13 15 13△ | 1 | 3 50 8 | 56 | 0 59 |
| 30 | F | 14 31 29 | 6 9 4 | 13 35 28 | 45 | 2 47 13 | 38 | 1 3 |
| 31 | S | 14 35 25 | 7 9 10 | 13 55 18m | 42 | 1 32 17 | 26 | 1 7 |

NOVEMBER XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 30 | 11 S 26 | 2 N 7 | 13 S 37 | 0 S 48 | 20 S 1 |
| 4 | 16 | 10 | 0 30 | 11 30 | 2 7 | 13 43 | 0 48 | 19 56 |
| 7 | 16 | 11 | 0 30 | 11 35 | 2 7 | 13 50 | 0 47 | 19 52 |
| 10 | 16 | 12 | 0 30 | 11 39 | 2 7 | 13 57 | 0 47 | 19 46 |
| 13 | 16 | 12 | 0 30 | 11 42 | 2 7 | 14 3 | 0 47 | 19 40 |
| 16 | 16 | 13 | 0 30 | 11 45 | 2 7 | 14 9 | 0 47 | 19 33 |
| 19 | 16 | 14 | 0 30 | 11 48 | 2 7 | 14 16 | 0 47 | 19 27 |
| 22 | 16 | 14 | 0 30 | 11 51 | 2 7 | 14 23 | 0 47 | 19 21 |
| 25 | 16 | 15 | 0 30 | 11 55 | 2 7 | 14 28 | 0 47 | 19 13 |
| 28 | 16 | 15 | 0 30 | 11 59 | 2 7 | 14 34 | 0 47 | 19 5 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 14 39 21 | 8 ^m 9 17 | 14 S 14 | 28 ^m 23 | 0 S 12 | 20 S 1 | 1 ^h 10 |
| 2 | M | 14 43 18 | 9 9 26 | 14 34 | 12 ^f 42 | 1 N 6 | 21 17 | 1 13 |
| 3 | Tu | 14 47 14 | 10 9 37 | 14 54 | 26 35 | 2 18 | 21 7 | 1 17 |
| 4 | W | 14 51 11 | 11 9 50 | 15 12 | 10 ^w 2 | 3 21 | 19 45 | 1 21 |
| 5 | Th | 14 55 7 | 12 10 4 | 15 30 | 23 8 | 4 10 | 17 22 | 1 24 |
| 6 | F | 14 59 4 | 13 10 19 | 15 48 | 5 ^m 42 | 4 47 | 14 14 | 1 28 |
| 7 | S | 15 3 0 | 14 10 36 | 16 6 | 18 8 | 5 8 | 10 32 | 1 32 |
| 8 | S | 15 6 57 | 15 10 55 | 16 24 | 0 ^x 10 | 5 16 | 6 29 | 1 36 |
| 9 | M | 15 10 54 | 16 11 15 | 16 42 | 12 7 | 5 10 | 2 15 | 1 40 |
| 10 | Tu | 15 14 51 | 17 11 36 | 16 59 | 23 59 | 4 51 | 2 N 3 | 1 44 |
| 11 | W | 15 18 47 | 18 11 59 | 17 16 | 5 ^r 50 | 4 19 | 6 17 | 1 48 |
| 12 | Th | 15 23 44 | 19 12 23 | 17 33 | 17 43 | 3 35 | 10 17 | 1 52 |
| 13 | F | 15 26 40 | 20 12 49 | 17 49 | 29 41 | 2 43 | 13 55 | 1 56 |
| 14 | S | 15 30 37 | 21 13 17 | 18 5 | 11 ^o 46 | 1 43 | 17 0 | 1 59 |
| 15 | S | 15 34 33 | 22 13 46 | 18 21 | 24 0 | 0 36 | 19 23 | 2 3 |
| 16 | M | 15 38 30 | 23 14 16 | 18 36 | 6 ^h 24 | 0 S 32 | 20 52 | 2 4 |
| 17 | Tu | 15 42 26 | 24 14 49 | 18 51 | 19 0 | 1 41 | 21 20 | 2 10 |
| 18 | W | 15 46 23 | 25 15 23 | 19 6 | 1 ^o 48 | 2 45 | 20 42 | 2 14 |
| 19 | Th | 15 50 20 | 26 15 58 | 19 20 | 14 50 | 3 42 | 18 58 | 2 17 |
| 20 | F | 15 54 16 | 27 16 36 | 19 34 | 28 6 | 4 28 | 16 11 | 2 20 |
| 21 | S | 15 58 13 | 28 17 15 | 19 48 | 11 ^o 36 | 5 0 | 13 30 | 2 23 |
| 22 | S | 16 2 9 | 29 17 56 | 20 1 | 25 23 | 5 16 | 8 6 | 2 26 |
| 23 | M | 16 6 6 | 0 ^f 18 39 | 20 14 | 9 ^m 25 | 5 14 | 3 12 | 2 29 |
| 24 | Tu | 16 10 2 | 1 19 23 | 20 27 | 23 41 | 4 52 | 1 S 55 | 2 32 |
| 25 | W | 16 13 59 | 2 20 9 | 20 39 | 8 ^h 8 | 4 12 | 7 6 | 2 35 |
| 26 | Th | 16 17 56 | 3 20 57 | 20 51 | 22 44 | 3 15 | 11 52 | 2 39 |
| 27 | F | 16 21 52 | 4 21 46 | 21 2 | 7 ^m 23 | 2 6 | 15 58 | 2 42 |
| 28 | S | 16 25 49 | 5 22 37 | 21 13 | 21 59 | 0 48 | 19 3 | 2 45 |
| 29 | S | 16 29 45 | 6 23 29 | 21 24 | 6 ^f 25 | 0 N 32 | 20 52 | 2 50 |
| 30 | M | 16 33 42 | 7 24 22 | 21 34 | 20 35 | 1 49 | 21 19 | 2 53 |

DECEMBER XXXI DAYS.

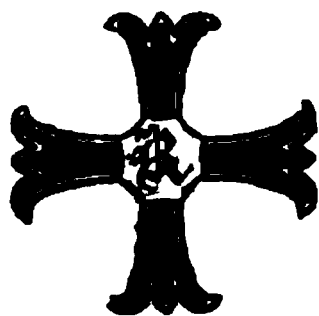
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 N 30 | 12 S 3 | 2 N 7 | 14 S 39 | 0 S 46 | 18 S 57 |
| 4 | 16 | 15 | 0 30 | 12 7 | 2 7 | 14 45 | 0 46 | 18 49 |
| 7 | 16 | 16 | 0 30 | 12 10 | 2 8 | 14 50 | 0 46 | 18 40 |
| 10 | 16 | 16 | 0 30 | 12 13 | 2 8 | 14 55 | 0 46 | 18 31 |
| 13 | 16 | 16 | 0 30 | 12 16 | 2 8 | 15 1 | 0 46 | 18 23 |
| 16 | 16 | 16 | 0 30 | 12 19 | 2 8 | 15 6 | 0 46 | 18 12 |
| 19 | 16 | 17 | 0 30 | 12 22 | 2 9 | 15 11 | 0 46 | 18 2 |
| 22 | 16 | 17 | 0 30 | 12 24 | 2 9 | 15 16 | 0 46 | 17 52 |
| 25 | 16 | 17 | 0 30 | 12 26 | 2 9 | 15 20 | 0 46 | 17 41 |
| 28 | 16 | 17 | 0 30 | 12 28 | 2 9 | 15 24 | 0 46 | 17 30 |
| 31 | 16 | 17 | 0 30 | 12 30 | 2 9 | 15 28 | 0 46 | 17 19 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 16 37 38 | 8 25 16 | 21 S 44 | 4 w 26 | 2 N 57 | 20 S 26 | 2 m 57 |
| 2 | W | 16 41 35 | 9 26 12 | 21 53 17 | 55 | 3 53 | 18 24 | 3 0 |
| 3 | Th | 16 45 31 | 10 27 8 | 22 2 1 m | 0 | 4 36 | 15 28 | 3 3 |
| 4 | F | 16 49 28 | 11 28 5 | 22 11 13 | 44 | 5 3 | 11 52 | 3 7 |
| 5 | S | 16 53 25 | 12 29 3 | 22 19 26 | 9 | 5 16 | 7 51 | 3 10 |
| 6 | S | 16 57 21 | 13 30 1 | 22 27 8 | 18 | 5 14 | 3 36 | 3 14 |
| 7 | M | 17 1 17 | 14 31 1 | 22 34 20 | 17 | 4 58 | 0 N 43 | 3 17 |
| 8 | Tu | 17 5 14 | 15 32 1 | 22 41 2 | r 9 | 4 30 | 4 59 | 3 20 |
| 9 | W | 17 9 11 | 16 33 1 | 22 47 14 | 0 | 3 50 | 9 4 | 3 23 |
| 10 | Th | 17 13 8 | 17 34 2 | 22 53 25 | 54 | 3 0 | 12 49 | 3 26 |
| 11 | F | 17 17 4 | 18 35 4 | 22 58 7 | 55 | 2 2 | 16 5 | 3 28 |
| 12 | S | 17 21 1 | 19 36 6 | 23 3 20 | 8 | 0 58 | 18 43 | 3 31 |
| 13 | S | 17 24 57 | 20 37 9 | 23 8 2 | 34 | 0 S 11 | 20 31 | 3 34 |
| 14 | M | 17 28 54 | 21 38 13 | 23 12 15 | 15 | 1 20 | 21 19 | 3 36 |
| 15 | Tu | 17 32 50 | 22 39 17 | 23 15 28 | 12 | 2 26 | 21 1 | 3 39 |
| 16 | W | 17 36 46 | 23 40 22 | 23 19 11 | 25 | 3 26 | 19 33 | 3 42 |
| 17 | Th | 17 40 43 | 24 41 27 | 23 21 24 | 52 | 4 15 | 16 59 | 3 45 |
| 18 | F | 17 44 40 | 25 42 34 | 23 24 8 | 32 | 4 51 | 13 27 | 3 48 |
| 19 | S | 17 48 36 | 26 43 41 | 23 25 22 | 22 | 5 11 | 9 10 | 3 51 |
| 20 | S | 17 52 33 | 27 44 49 | 23 27 6 | m 20 | 5 12 | 4 21 | 3 53 |
| 21 | M | 17 56 29 | 28 45 55 | 23 27 20 | 25 | 4 55 | 0 S 43 | 3 55 |
| 22 | Tu | 18 0 26 | 29 47 7 | 23 28 4 | 33 | 4 20 | 5 47 | 3 57 |
| 23 | W | 18 4 23 | 0 w 48 | 23 28 18 | 44 | 3 28 | 10 33 | 3 59 |
| 24 | Th | 18 8 20 | 1 49 28 | 23 27 2 | m 56 | 2 25 | 14 46 | 4 2 |
| 25 | F | 18 12 17 | 2 50 39 | 23 26 17 | 6 | 1 12 | 18 6 | 4 5 |
| 26 | S | 18 16 14 | 3 51 51 | 23 24 1 | f 12 | 0 N 5 | 20 21 | 4 7 |
| 27 | S | 18 20 11 | 4 58 3 | 23 22 15 | 11 | 1 20 | 21 19 | 4 9 |
| 28 | M | 18 24 7 | 5 54 15 | 23 20 29 | 0 | 2 30 | 20 58 | 4 12 |
| 29 | Tu | 18 28 3 | 6 55 28 | 23 17 12 | w 35 | 3 30 | 19 23 | 4 14 |
| 30 | W | 18 32 0 | 7 56 41 | 23 13 25 | 34 | 4 17 | 16 47 | 4 16 |
| 31 | Th | 18 35 57 | 8 57 54 | 23 10 8 | m 54 | 4 49 | 13 23 | 4 18 |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1808.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

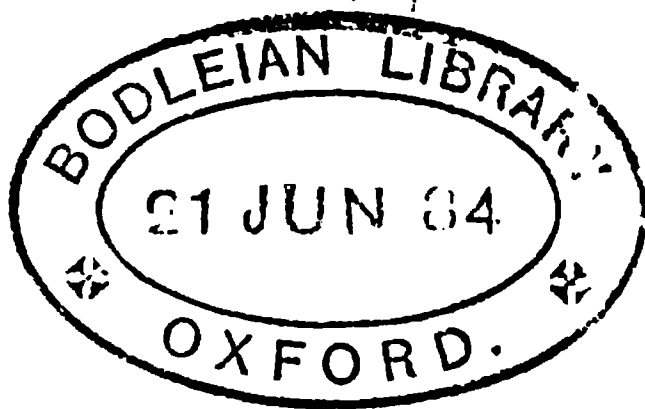
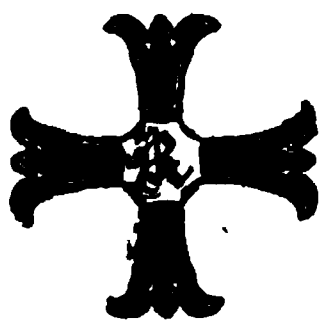
Price One Shilling.

(Hm.) 937 x. 160

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1808.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR,
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 30 | 12 S 30 | 2 N 10 | 15 S 30 | 0 S 46 | 17 S 15 |
| 4 | 16 | 15 | 0 30 | 12 32 | 2 10 | 15 34 | 0 46 | 17 4 |
| 7 | 16 | 16 | 0 30 | 12 34 | 2 11 | 15 37 | 0 46 | 16 52 |
| 10 | 16 | 16 | 0 30 | 12 36 | 2 11 | 15 41 | 0 46 | 16 40 |
| 13 | 16 | 17 | 0 30 | 12 37 | 2 12 | 15 44 | 0 46 | 16 28 |
| 16 | 16 | 17 | 0 30 | 12 38 | 2 12 | 15 47 | 0 46 | 16 15 |
| 19 | 16 | 17 | 0 30 | 12 40 | 2 13 | 15 49 | 0 47 | 16 2 |
| 22 | 16 | 18 | 0 30 | 12 41 | 2 13 | 15 52 | 0 47 | 15 59 |
| 25 | 16 | 18 | 0 30 | 12 41 | 2 14 | 15 54 | 0 47 | 15 36 |
| 28 | 16 | 18 | 0 30 | 12 42 | 2 14 | 15 56 | 0 47 | 15 23 |
| 31 | 16 | 18 | 0 30 | 12 42 | 2 15 | 15 58 | 0 47 | 15 10 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 18 39 54 | 9 ^w 59 6 | 23 S 5 | 21 ^m 7 | 5 N 7 | 9 S 28 | 4 ^m 20 |
| 2 | S | 18 43 51 | 11 0 19 | 23 0 | 4 ^x 2 | 5 9 | 5 14 | 4 22 |
| 3 | S | 18 47 48 | 12 1 31 | 22 55 | 16 12 | 4 57 | 0 53 | 4 24 |
| 4 | M | 18 51 44 | 13 2 43 | 22 49 | 28 11 | 4 32 | 3 N 27 | 4 26 |
| 5 | Tu | 18 55 41 | 14 3 54 | 22 43 | 10 ^r 3 | 3 56 | 7 36 | 4 28 |
| 6 | W | 18 59 37 | 15 5 5 | 22 36 | 21 53 | 3 10 | 11 28 | 4 30 |
| 7 | Th | 19 3 34 | 16 6 15 | 22 29 | 3 47 | 2 15 | 14 54 | 4 32 |
| 8 | F | 19 7 31 | 17 7 25 | 22 22 | 15 48 | 1 14 | 17 46 | 4 34 |
| 9 | S | 19 11 27 | 18 8 35 | 22 14 | 28 4 | 0 9 | 19 53 | 4 36 |
| 10 | S | 19 15 24 | 19 9 43 | 22 5 | 10 [□] 36 | 0 S 59 | 21 5 | 4 38 |
| 11 | M | 19 19 20 | 20 10 51 | 21 57 | 23 29 | 2 5 | 21 18 | 4 39 |
| 12 | Tu | 19 23 17 | 21 11 59 | 21 47 | 6 [☿] 44 | 3 6 | 20 12 | 4 40 |
| 13 | W | 19 27 13 | 22 13 5 | 21 38 | 20 20 | 3 58 | 18 0 | 4 42 |
| 14 | Th | 19 31 10 | 23 14 12 | 21 28 | 4 [♂] 15 | 4 38 | 14 43 | 4 43 |
| 15 | F | 19 35 6 | 24 15 18 | 21 17 | 18 25 | 5 0 | 10 34 | 4 45 |
| 16 | S | 19 39 3 | 25 16 24 | 21 6 | 2 ^m 44 | 5 5 | 5 46 | 4 46 |
| 17 | S | 19 43 0 | 26 17 29 | 20 55 | 17 6 | 4 50 | 0 39 | 4 47 |
| 18 | M | 19 46 56 | 27 18 34 | 20 43 | 1 [♂] 27 | 4 17 | 4 S 30 | 4 48 |
| 19 | Tu | 19 50 53 | 28 19 38 | 20 31 | 15 42 | 3 29 | 9 24 | 4 49 |
| 20 | W | 19 54 49 | 29 20 43 | 20 18 | 29 50 | 2 28 | 13 44 | 4 50 |
| 21 | Th | 19 58 46 | 0 ^m 21 46 | 20 6 | 13 ^m 49 | 1 19 | 17 15 | 4 51 |
| 22 | F | 20 2 42 | 1 22 50 | 19 52 | 27 39 | 0 5 | 19 44 | 4 51 |
| 23 | S | 20 6 39 | 2 23 52 | 19 39 | 11 [♂] 20 | 1 N 7 | 21 3 | 4 52 |
| 24 | S | 20 10 35 | 3 24 54 | 19 25 | 24 52 | 2 15 | 21 7 | 4 53 |
| 25 | M | 20 14 32 | 4 25 56 | 19 10 | 8 ^w 14 | 3 14 | 19 59 | 4 54 |
| 26 | Tu | 20 18 29 | 5 26 56 | 18 56 | 21 25 | 4 2 | 17 46 | 4 54 |
| 27 | W | 20 22 25 | 6 27 56 | 18 40 | 4 ^m 25 | 4 8 | 14 42 | 4 55 |
| 28 | Th | 20 26 22 | 7 28 55 | 18 25 | 17 14 | 4 57 | 10 59 | 4 56 |
| 29 | F | 20 30 18 | 8 29 52 | 18 9 | 29 45 | 5 1 | 6 52 | 4 57 |
| 30 | S | 20 34 15 | 9 30 49 | 17 53 | 12 ^x 4 | 4 52 | 2 32 | 4 58 |
| 31 | S | 20 38 11 | 10 31 44 | 17 37 | 24 11 | 4 30 | 1 N 49 | 4 58 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , |
| 1 | 18 9 | 20 S 13 | 3 N 13 | 15 S 29 | 0 N 53 | 22 S 10 | 28 m 33 |
| 4 | 1 9 | 19 37 | 3 12 | 16 16 | 0 28 | 22 50 | 28 23 |
| 7 | 1 8 | 18 59 | 3 9 | 17 1 | 0 5 | 23 22 | 28 14 |
| 10 | 1 8 | 18 19 | 3 5 | 17 30 | 0 S 18 | 23 45 | 28 4 |
| 13 | 1 7 | 17 39 | 3 0 | 18 25 | 0 39 | 23 57 | 27 55 |
| 16 | 1 6 | 16 55 | 2 54 | 19 3 | 0 58 | 23 58 | 27 45 |
| 19 | 1 5 | 16 11 | 2 48 | 19 36 | 1 16 | 23 48 | 27 36 |
| 22 | 1 4 | 15 24 | 2 40 | 20 3 | 1 31 | 23 25 | 27 26 |
| 25 | 1 3 | 14 37 | 2 32 | 20 33 | 1 43 | 22 50 | 27 17 |
| 28 | 1 3 | 13 49 | 2 24 | 20 52 | 1 53 | 22 1 | 27 7 |
| 31 | 1 2 | 12 56 | 2 16 | 21 7 | 2 0 | 21 0 | 26 58 |

| D
M | h | | ♄ | | ♅ | | ♆ | | ♇ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|--------|---------|---------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , | ° , | ° , | ° , | | | | | | | | |
| 1 | 19 m 21 | 14 m 25 | 4 m 46 | 23 m 15 | 19 f 27 | | | | | | | | | | ☐ | | ☐ | * |
| 2 | 19 27 | 14 38 | 5 33 | 24 19 | 20 47 | | | | | | | | Δ | | | | | |
| 3 | 19 32 | 14 51 | 6 20 | 25 23 | 22 8 | | | | | | | * | | Δ | | | | |
| 4 | 19 37 | 15 5 | 7 8 | 26 28 | 23 31 | | | | | | | | | | | | Δ | ☐ |
| 5 | 19 42 | 15 18 | 7 55 | 27 32 | 24 55 | | | | | | | ☐ | | | | * | * | |
| 6 | 19 47 | 15 31 | 8 42 | 28 36 | 26 19 | | | | | | | | | | | | | Δ |
| 7 | 19 52 | 15 45 | 9 30 | 29 41 | 27 44 | | | | | | | | ♂ | | | | | |
| 8 | 19 57 | 15 58 | 10 17 | 0 f 46 | 29 10 | | | | | | | Δ | | ♂ | ☐ | ☐ | ♂ | |
| 9 | 20 2 | 16 12 | 11 4 | 1 52 | 0 w 37 | | | | | | | | | | | Δ | ♂ | |
| 10 | 20 7 | 16 25 | 11 52 | 2 58 | 3 4 | | | | | | | | | | | Δ | Δ | |
| 11 | 20 12 | 16 39 | 12 39 | 4 4 | 3 32 | ☉ * ♈ | | | | | | | | | | | | ♂ |
| 12 | 20 17 | 16 52 | 13 26 | 5 10 | 5 1 | ☿ * ♈ | | | | | | | Δ | | | | | ♂ |
| 13 | 20 21 | 17 6 | 14 14 | 6 16 | 6 30 | | | | | | | ♂ | | Δ | | | | |
| 14 | 20 26 | 17 19 | 15 1 | 7 23 | 8 0 | | | | | | | | ☐ | | | | | Δ |
| 15 | 20 30 | 17 33 | 15 48 | 8 30 | 9 30 | | | | | | | | | ☐ | ♂ | ♂ | | |
| 16 | 20 34 | 17 47 | 16 36 | 9 38 | 11 1 | | | | | | | | * | | | | ☐ | |
| 17 | 20 39 | 18 1 | 17 23 | 10 45 | 12 33 | | | | | | | | | * | | | | Δ |
| 18 | 20 43 | 18 15 | 18 10 | 11 52 | 14 5 | ♂ ☉ ♈ | | | | | | Δ | | | | | | |
| 19 | 20 47 | 18 29 | 18 58 | 13 0 | 15 37 | | | | | | | | | | Δ | Δ | * | ☐ |
| 20 | 20 51 | 18 43 | 19 45 | 14 8 | 17 10 | | | | | | | ☐ | ♂ | | | | | |
| 21 | 20 55 | 18 57 | 20 38 | 15 16 | 18 44 | ♂ ☐ ♈ | | | | | | | | | | | | * |
| 22 | 20 58 | 19 11 | 21 20 | 16 24 | 20 18 | | | | | | | * | | ♂ | ☐ | ☐ | | |
| 23 | 21 2 | 19 25 | 22 8 | 17 32 | 21 53 | ☿ * ♈ | | | | | | | | | | * | * | ♂ |
| 24 | 21 6 | 19 39 | 22 55 | 18 40 | 23 28 | | | | | | | | | | | * | * | |
| 25 | 21 9 | 19 53 | 23 43 | 19 49 | 25 4 | ☉ ☐ ♈ | | | | | | * | | | | | | |
| 26 | 21 13 | 20 7 | 24 30 | 20 58 | 26 41 | ♀ * ♈ | | | | | | | | * | | | | ♂ |
| 27 | 21 16 | 20 21 | 25 18 | 22 7 | 28 19 | | | | | | | ♂ | ☐ | | | | | |
| 28 | 21 19 | 20 35 | 26 5 | 23 16 | 29 58 | | | | | | | | | ☐ | ♂ | | | |
| 29 | 21 23 | 20 50 | 26 53 | 24 26 | 1 m 37 | | | | | | | | Δ | | | ♂ | * | |
| 30 | 21 26 | 21 4 | 27 40 | 25 35 | 3 17 | | | | | | | | | | | | | |
| 31 | 21 29 | 21 18 | 28 28 | 26 44 | 5 57 | ☿ ☐ ♈ | | | | | | | | Δ | | | ☐ | |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 31 | 12 S 43 | 2 N 15 | 15 S 59 | 0 S 47 | 15 S 4 |
| 4 | 16 | 15 | 0 31 | 12 43 | 2 16 | 16 1 | 0 47 | 14 51 |
| 7 | 16 | 14 | 0 31 | 12 43 | 2 17 | 16 2 | 0 47 | 14 37 |
| 10 | 16 | 14 | 0 31 | 12 43 | 2 17 | 16 3 | 0 47 | 14 22 |
| 13 | 16 | 13 | 0 31 | 12 43 | 2 18 | 16 4 | 0 48 | 14 8 |
| 16 | 16 | 12 | 0 31 | 12 42 | 2 18 | 16 5 | 0 48 | 13 54 |
| 19 | 16 | 11 | 0 31 | 12 42 | 2 19 | 16 5 | 0 48 | 13 40 |
| 22 | 16 | 11 | 0 31 | 12 42 | 2 19 | 16 5 | 0 48 | 13 26 |
| 25 | 16 | 10 | 0 31 | 12 41 | 2 20 | 16 5 | 0 49 | 13 11 |
| 28 | 16 | 10 | 0 31 | 12 40 | 2 20 | 16 4 | 0 49 | 12 56 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ☽
Long. | | | ☽
Lat. | | | ☽
Declin | | | ♂
Long. | | |
|--------|--------|-------------------|----|----|------------|---|-------|-------------|----|------|------------|----|---|-----------|----|----|-------------|----|---|------------|----|----|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | M | 20 | 42 | 8 | 11 | m | 32 38 | 17 | S | 20 | 6 | r | 8 | 3 | N | 56 | 6 | N | 3 | 4 | m | 59 |
| 2 | Tu | 20 | 46 | 4 | 12 | | 33 30 | 17 | | 3 17 | 58 | | | 3 | 12 | 10 | | 0 | 4 | | 59 | |
| 3 | W | 20 | 50 | 1 | 13 | | 34 21 | 16 | 46 | 29 | 46 | | | 2 | 20 | 13 | | 35 | 4 | | 59 | |
| 4 | Th | 20 | 53 | 58 | 14 | | 35 11 | 16 | 28 | 11 | 8 | 38 | | 1 | 21 | 16 | | 37 | 4 | | 59 | |
| 5 | F | 20 | 57 | 54 | 15 | | 35 59 | 16 | 10 | 23 | 37 | | | 0 | 18 | 19 | | 0 | 5 | | 0 | |
| 6 | S | 21 | 1 | 51 | 16 | | 36 45 | 15 | 52 | 5 | □ | 50 | | 0 | S | 46 | 20 | 32 | 5 | | 0 | |
| 7 | S | 21 | 5 | 47 | 17 | | 37 30 | 15 | 34 | 18 | 23 | | | 1 | 50 | 21 | | 7 | 5 | | 0 | |
| 8 | M | 21 | 9 | 44 | 18 | | 38 13 | 15 | 15 | 1 | ☼ | 19 | | 2 | 51 | 20 | | 37 | 5 | | 0 | |
| 9 | Tu | 21 | 13 | 40 | 19 | | 38 54 | 14 | 56 | 14 | 41 | | | 3 | 44 | 18 | | 57 | 5 | | 1 | |
| 10 | W | 21 | 17 | 37 | 20 | | 39 34 | 14 | 37 | 28 | 30 | | | 4 | 25 | 16 | | 9 | 5 | | 1 | |
| 11 | Th | 21 | 21 | 33 | 21 | | 40 13 | 14 | 18 | 12 | Ω | 44 | | 4 | 52 | 12 | | 20 | 5 | | 2 | |
| 12 | F | 21 | 25 | 30 | 22 | | 40 50 | 13 | 58 | 27 | 17 | | | 5 | 0 | 7 | | 43 | 5 | | 3 | |
| 13 | S | 21 | 29 | 27 | 23 | | 41 25 | 13 | 38 | 12 | m | 4 | | 4 | 49 | 2 | | 35 | 5 | B | 4 | |
| 14 | S | 21 | 33 | 23 | 24 | | 41 59 | 13 | 18 | 26 | 54 | | | 4 | 18 | 2 | S | 43 | 5 | | 5 | |
| 15 | M | 21 | 37 | 20 | 25 | | 42 32 | 12 | 58 | 11 | △ | 39 | | 3 | 30 | 7 | | 50 | 5 | | 6 | |
| 16 | Tu | 21 | 41 | 16 | 26 | | 43 3 | 12 | 37 | 26 | 14 | | | 2 | 29 | 12 | | 27 | 5 | | 7 | |
| 17 | W | 21 | 45 | 13 | 27 | | 43 33 | 12 | 16 | 10 | m | 33 | | 1 | 19 | 16 | | 15 | 4 | | 5 | |
| 18 | Th | 21 | 49 | 9 | 28 | | 44 2 | 11 | 56 | 24 | 35 | | | 0 | 6 | 19 | | 2 | 4 | | 5 | |
| 19 | F | 21 | 53 | 6 | 29 | | 44 30 | 11 | 34 | 8 | f | 19 | | 1 | N | 6 | 20 | 37 | 4 | | 5 | |
| 20 | S | 21 | 57 | 2 | 0 | × | 44 56 | 11 | 13 | 21 | 48 | | | 2 | 13 | 20 | | 59 | 4 | | 5 | |
| 21 | S | 22 | 0 | 59 | 1 | | 45 21 | 10 | 52 | 5 | w | 2 | | 3 | 12 | 20 | | 10 | 4 | | 5 | |
| 22 | M | 22 | 4 | 56 | 2 | | 45 44 | 10 | 30 | 18 | 3 | | | 3 | 59 | 18 | | 17 | 4 | | 5 | |
| 23 | Tu | 22 | 8 | 52 | 3 | | 46 6 | 10 | 8 | 0 | m | 53 | | 4 | 34 | 15 | | 31 | 4 | | 5 | |
| 24 | W | 22 | 12 | 49 | 4 | | 46 26 | 9 | 46 | 13 | 32 | | | 4 | 54 | 12 | | 4 | 4 | | 5 | |
| 25 | Th | 22 | 16 | 45 | 5 | | 46 45 | 9 | 24 | 26 | 1 | | | 5 | 0 | 8 | | 2 | 4 | | 5 | |
| 26 | F | 22 | 20 | 42 | 6 | | 47 2 | 9 | 2 | 8 | × | 19 | | 4 | 52 | 3 | | 56 | 4 | | 4 | |
| 27 | S | 22 | 24 | 38 | 7 | | 47 17 | 8 | 39 | 20 | 28 | | | 4 | 31 | 0 | N | 22 | 4 | | 5 | |
| 28 | S | 22 | 28 | 35 | 8 | | 47 31 | 8 | 17 | 2 | r | 29 | | 3 | 57 | 4 | | 37 | 4 | | 5 | |
| 29 | M | 22 | 32 | 31 | 9 | | 47 42 | 7 | 54 | 14 | 22 | | | 3 | 14 | 8 | | 39 | 4 | | 5 | |

1808.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

5

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 18 1 | 12 S 42 | 2 N 11 | 21 S 16 | 2 S 2 | 20 S 36 | 26 m 55 |
| 4 | 1 0 | 11 50 | 2 2 | 21 25 | 2 5 | 19 16 | 26 45 |
| 7 | 0 59 | 10 59 | 1 50 | 21 32 | 2 4 | 17 43 | 26 36 |
| 10 | 0 58 | 10 4 | 1 39 | 21 30 | 1 58 | 15 56 | 26 26 |
| 13 | 0 57 | 9 11 | 1 28 | 21 28 | 1 48 | 13 56 | 26 17 |
| 16 | 0 55 | 8 16 | 1 17 | 21 18 | 1 33 | 11 44 | 26 7 |
| 19 | 0 54 | 7 21 | 1 6 | 21 1 | 1 12 | 9 20 | 25 58 |
| 22 | 0 52 | 6 24 | 0 54 | 20 38 | 0 46 | 6 49 | 25 48 |
| 25 | 0 51 | 5 29 | 0 44 | 20 13 | 0 13 | 4 13 | 25 39 |
| 28 | 0 50 | 4 33 | 0 35 | 19 40 | 0 N 24 | 1 40 | 25 29 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|---------|---------|---------|--------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | | | | | | | |
| 1 | 21 m 32 | 21 m 33 | 29 m 15 | 27 f 54 | 6 m 38 | ♈ □ ♈ | | | | | | * |
| 2 | 21 35 | 21 47 | 0 x 29 | 4 8 | 20 | | * | | | * | | * |
| 3 | 21 34 | 22 1 | 0 49 | 0 w 14 | 10 2 | | | ♈ | | * | Δ | |
| 4 | 21 40 | 22 15 | 1 37 | 1 24 | 11 45 | | □ | | | | | □ |
| 5 | 21 43 | 22 30 | 2 24 | 2 34 | 13 29 | ♀ * ♂ | | | ♈ | □ | | |
| 6 | 21 46 | 22 44 | 3 11 | 3 44 | 15 14 | | | | | | □ | |
| 7 | 21 48 | 22 59 | 3 59 | 4 54 | 16 59 | ♀ * ☿ | Δ | | | Δ | | Δ |
| 8 | 21 51 | 23 13 | 4 46 | 6 4 | 18 45 | ☉ ♂ ♈ | | Δ | | | Δ | ♈ |
| 9 | 21 53 | 23 28 | 5 33 | 7 15 | 20 32 | ♈ Δ ☿ | | | | | | |
| 10 | 21 55 | 23 42 | 6 21 | 8 25 | 22 21 | ♈ □ ♈ | | □ | Δ | | | |
| 11 | 21 57 | 23 57 | 7 8 | 9 36 | 24 10 | ☉ □ ♈ | | | | | | |
| 12 | 21 59 | 24 11 | 7 55 | 10 46 | 25 59 | ♈ ♂ ♈ | | ♈ | | □ | ♈ | ♈ |
| 13 | 22 1 | 24 26 | 8 42 | 11 57 | 27 48 | | | * | | | ♈ | Δ |
| 14 | 22 3 | 24 40 | 9 29 | 13 8 | 29 38 | ☉ ♂ ♈ | | | * | | | |
| 15 | 22 4 | 24 54 | 10 16 | 14 19 | 1 x 29 | | | | | | | □ |
| 16 | 22 6 | 25 9 | 11 4 | 15 30 | 3 21 | | Δ | | | Δ | | |
| 17 | 22 7 | 25 23 | 11 51 | 16 41 | 5 12 | ♈ Δ ☿ | | ♈ | | | Δ | * |
| 18 | 22 8 | 25 37 | 12 38 | 17 52 | 7 4 | | □ | | ♈ | □ | | |
| 19 | 22 9 | 25 52 | 13 25 | 19 3 | 8 56 | | | | | | □ | □ |
| 20 | 22 10 | 26 6 | 14 12 | 20 14 | 10 47 | | | | | * | | |
| 21 | 22 11 | 26 21 | 15 59 | 21 25 | 12 38 | | * | | | | | |
| 22 | 22 12 | 26 35 | 17 47 | 22 37 | 14 29 | ♀ * ♈ | | * | * | | * | ♈ |
| 23 | 22 13 | 26 50 | 18 34 | 23 48 | 16 19 | ♈ ♂ ♈ | | | | | * | ♈ |
| 24 | 22 14 | 27 4 | 19 21 | 24 59 | 18 7 | ☉ Δ ☿ | | □ | | | | |
| 25 | 22 14 | 27 19 | 20 8 | 26 11 | 19 52 | | | | □ | ♈ | | |
| 26 | 22 15 | 27 33 | 21 55 | 27 22 | 21 35 | ♈ Δ ♈ | | ♈ | Δ | | | |
| 27 | 22 15 | 27 47 | 23 42 | 28 34 | 23 16 | | | | Δ | | ♈ | ♈ |
| 28 | 22 15 | 28 1 | 25 29 | 29 46 | 24 54 | | | | | | * | |
| 29 | 22 16 | 28 15 | 26 16 | 0 m 58 | 26 29 | | | | | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 31 | 12 S 39 | 2 N 21 | 16 S 4 | 0 S 49 | 12 S 46 |
| 4 | 16 | 9 | 0 31 | 12 38 | 2 21 | 16 3 | 0 49 | 12 31 |
| 7 | 16 | 8 | 0 31 | 12 36 | 2 22 | 16 3 | 0 50 | 12 17 |
| 10 | 16 | 8 | 0 31 | 12 34 | 2 22 | 16 2 | 0 50 | 12 2 |
| 13 | 16 | 7 | 0 31 | 12 33 | 2 24 | 16 1 | 0 50 | 11 48 |
| 16 | 16 | 6 | 0 31 | 12 31 | 2 24 | 15 59 | 0 50 | 11 34 |
| 19 | 16 | 5 | 0 31 | 12 29 | 2 25 | 15 57 | 0 51 | 11 19 |
| 22 | 16 | 4 | 0 31 | 12 28 | 2 25 | 15 55 | 0 51 | 11 4 |
| 25 | 16 | 3 | 0 31 | 12 26 | 2 26 | 15 53 | 0 52 | 10 50 |
| 28 | 16 | 3 | 0 31 | 12 24 | 2 26 | 15 51 | 0 52 | 10 35 |
| 31 | 16 | 2 | 0 31 | 12 21 | 2 26 | 15 48 | 0 52 | 10 20 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 22 36 25 | 10 47 51 | 7 S 31 | 26 10 | 2 N 22 | 12 N 19 | 4 49 |
| 2 | W | 22 40 25 | 11 47 59 | 7 9 | 7 57 | 1 24 | 15 30 | 4 48 |
| 3 | Th | 22 44 21 | 12 48 4 | 6 46 | 19 47 | 0 22 | 18 3 | 4 47 |
| 4 | F | 22 48 18 | 13 48 7 | 6 23 | 1 44 | 0 S 41 | 19 51 | 4 46 |
| 5 | S | 22 52 14 | 14 48 7 | 5 59 | 13 54 | 1 44 | 20 46 | 4 45 |
| 6 | S | 22 56 11 | 15 48 6 | 5 36 | 26 23 | 2 44 | 20 41 | 4 44 |
| 7 | M | 23 0 7 | 16 48 2 | 5 13 | 9 14 | 3 37 | 19 32 | 4 42 |
| 8 | Tu | 23 4 4 | 17 47 56 | 4 50 | 22 84 | 4 20 | 17 18 | 4 41 |
| 9 | W | 23 8 0 | 18 47 47 | 4 26 | 6 23 | 4 50 | 14 1 | 4 39 |
| 10 | Th | 23 11 57 | 19 47 37 | 4 3 | 20 40 | 5 8 | 9 49 | 4 37 |
| 11 | F | 23 15 54 | 20 47 25 | 3 39 | 5 23 | 4 57 | 4 56 | 4 35 |
| 12 | S | 23 19 50 | 21 47 10 | 3 16 | 20 24 | 4 31 | 0 S 21 | 4 33 |
| 13 | S | 23 23 47 | 22 46 53 | 2 52 | 5 34 | 3 45 | 5 39 | 4 31 |
| 14 | M | 23 27 43 | 23 46 35 | 2 28 | 20 41 | 2 44 | 10 37 | 4 29 |
| 15 | Tu | 23 31 40 | 24 46 15 | 2 5 | 5 37 | 1 31 | 14 51 | 4 27 |
| 16 | W | 23 35 36 | 25 45 53 | 1 41 | 20 16 | 0 14 | 18 4 | 4 26 |
| 17 | Th | 23 39 33 | 26 45 29 | 1 17 | 4 32 | 1 N 2 | 20 3 | 4 24 |
| 18 | F | 23 43 29 | 27 45 3 | 0 54 | 18 24 | 2 12 | 20 45 | 4 22 |
| 19 | S | 23 47 26 | 28 44 36 | 0 30 | 1 54 | 3 13 | 20 13 | 4 20 |
| 20 | S | 23 51 23 | 29 44 6 | 0 6 | 15 3 | 4 3 | 18 35 | 4 18 |
| 21 | M | 23 55 19 | 0 43 36 | 0 N 17 | 27 55 | 4 38 | 16 3 | 4 17 |
| 22 | Tu | 23 59 16 | 1 43 3 | 0 41 | 10 31 | 5 0 | 12 48 | 4 15 |
| 23 | W | 0 3 12 | 2 42 29 | 1 5 | 22 55 | 5 7 | 9 3 | 4 13 |
| 24 | Th | 0 7 9 | 3 41 53 | 1 28 | 5 9 | 4 59 | 4 59 | 4 11 |
| 25 | F | 0 11 5 | 4 41 15 | 1 52 | 17 15 | 4 39 | 0 46 | 4 9 |
| 26 | S | 0 15 2 | 5 40 35 | 2 15 | 29 14 | 4 6 | 3 N 27 | 4 7 |
| 27 | S | 0 18 58 | 6 39 52 | 2 39 | 11 7 | 3 22 | 7 30 | 4 5 |
| 28 | M | 0 22 55 | 7 39 8 | 3 22 | 22 56 | 2 30 | 11 15 | 4 3 |
| 29 | Tu | 0 26 52 | 8 38 22 | 3 26 | 4 44 | 1 32 | 14 33 | 4 1 |
| 30 | W | 0 30 48 | 9 37 34 | 3 49 | 16 32 | 0 29 | 17 16 | 3 59 |
| 31 | Th | 0 34 45 | 10 36 43 | 4 12 | 28 23 | 0 S 35 | 19 15 | 3 56 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 08 49 | 38 55 | 0 N 25 | 19 S 17 | 0 N 51 | 08 3 | 25 m 23 |
| 4 | 0 47 | 2 58 | 0 15 | 18 34 | 1 32 | 2 N 9 | 25 13 |
| 7 | 0 46 | 2 1 | 0 4 | 17 52 | 2 13 | 3 57 | 25 4 |
| 10 | 0 44 | 1 4 | 08 6 | 17 0 | 2 49 | 5 11 | 24 54 |
| 13 | 0 43 | 0 7 | 0 16 | 16 8 | 3 16 | 5 47 | 24 45 |
| 16 | 0 41 | 0 N 50 | 0 26 | 15 8 | 3 31 | 5 42 | 24 35 |
| 19 | 0 39 | 1 46 | 0 35 | 14 8 | 3 30 | 4 58 | 24 26 |
| 22 | 0 38 | 2 42 | 0 44 | 13 0 | 3 15 | 3 46 | 24 16 |
| 25 | 0 36 | 3 39 | 0 51 | 11 54 | 2 40 | 2 13 | 24 7 |
| 28 | 0 35 | 4 36 | 0 58 | 10 40 | 1 58 | 0 38 | 23 57 |
| 31 | 0 33 | 5 30 | 1 4 | 9 17 | 1 11 | 08 45 | 23 48 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 22 m 16 | 28 m 30 | 22 * 2 | 2 m 10 | 27 * 57 | ♂ Δ h | | | | * | | |
| 2 | 22 R 16 | 28 44 | 22 48 | 3 22 | 29 20 | | * | ♂ | | | | ☐ |
| 3 | 22 16 | 28 58 | 23 35 | 4 34 | 0 r 38 | ♀ ☐ ♀ | | | ♂ | | * | |
| 4 | 22 15 | 29 12 | 24 21 | 5 46 | 1 52 | | | | | ☐ | | Δ * |
| 5 | 22 15 | 29 26 | 25 8 | 6 58 | 2 59 | | ☐ | | | | | |
| 6 | 22 15 | 29 40 | 25 54 | 8 10 | 3 58 | | | | | | Δ | ☐ |
| 7 | 22 14 | 29 55 | 26 42 | 9 22 | 4 48 | | | Δ | | | | ☐ |
| 8 | 22 14 | 0 * 9 | 27 29 | 10 34 | 5 38 | | Δ | | Δ | | | |
| 9 | 22 13 | 0 23 | 28 15 | 11 46 | 6 20 | | | ☐ | | | Δ | ♂ Δ |
| 10 | 22 12 | 0 37 | 29 2 | 12 58 | 6 33 | | | | ☐ | | | |
| 11 | 22 11 | 0 51 | 29 48 | 14 10 | 6 58 | | | | | | | |
| 12 | 22 10 | 1 5 | 0 r 35 | 15 22 | 7 R 1 | ☉ Δ h | ♂ | * | * | ♂ | ♂ | |
| 13 | 22 9 | 1 19 | 1 21 | 16 35 | 7 0 | | | | | | | ♂ |
| 14 | 22 8 | 1 33 | 2 7 | 17 47 | 6 52 | | | | | | Δ | |
| 15 | 22 6 | 1 47 | 2 53 | 18 59 | 6 37 | | | ♂ | | Δ | | |
| 16 | 22 5 | 2 1 | 3 40 | 20 12 | 6 14 | | Δ | | ♂ | | ☐ | Δ |
| 17 | 22 3 | 2 15 | 4 26 | 21 24 | 5 41 | ♀ ♂ ♂ | | | | ☐ | Δ | |
| 18 | 22 2 | 2 29 | 5 13 | 22 36 | 5 8 | ♀ ☐ h | | | | | * | |
| 19 | 22 0 | 2 42 | 5 59 | 23 49 | 4 26 | | ☐ | * | | * | ☐ | ☐ |
| 20 | 21 58 | 2 56 | 6 45 | 25 1 | 3 40 | | | | | | | |
| 21 | 21 56 | 3 9 | 7 31 | 26 14 | 2 51 | | * | | * | | | * |
| 22 | 21 54 | 3 23 | 8 17 | 27 26 | 2 0 | ☉ ♂ ♀ | | ☐ | | | * | |
| 23 | 21 52 | 3 36 | 9 3 | 28 39 | 1 8 | | | | ☐ | | ♂ | |
| 24 | 21 50 | 3 50 | 9 49 | 29 51 | 0 16 | | | Δ | | ♂ | | |
| 25 | 21 48 | 4 3 | 10 35 | 1 * 4 | 29 * 23 | ♂ Δ ♀ | | | Δ | | | |
| 26 | 21 46 | 4 17 | 11 21 | 2 16 | 28 32 | | | | | | | ♂ |
| 27 | 21 43 | 4 30 | 12 7 | 3 29 | 27 46 | | ♂ | | | | ♂ | |
| 28 | 21 41 | 4 43 | 12 53 | 4 41 | 27 4 | ♀ ♂ ♂ | | | | | | |
| 29 | 21 38 | 4 56 | 13 39 | 5 54 | 26 25 | | | ♂ | | * | * | |
| 30 | 21 35 | 5 9 | 14 25 | 7 6 | 25 51 | | | | ♂ | | | |
| 31 | 21 32 | 5 22 | 15 11 | 8 19 | 25 22 | | | | | | | * |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 31 | 12 S 19 | 2 N 27 | 15 S 47 | 0 S 53 | 10 S 17 |
| 4 | 16 | 0 | 0 31 | 12 17 | 2 27 | 15 45 | 0 53 | 10 4 |
| 7 | 15 | 59 | 0 31 | 12 14 | 2 28 | 15 42 | 0 54 | 9 50 |
| 10 | 15 | 58 | 0 31 | 12 11 | 2 28 | 15 39 | 0 54 | 9 36 |
| 13 | 15 | 58 | 0 31 | 12 9 | 2 28 | 15 36 | 0 55 | 9 23 |
| 16 | 15 | 57 | 0 31 | 12 7 | 2 28 | 15 32 | 0 55 | 9 10 |
| 19 | 15 | 56 | 0 31 | 12 5 | 2 29 | 15 29 | 0 56 | 8 57 |
| 22 | 15 | 56 | 0 31 | 12 2 | 2 29 | 15 23 | 0 56 | 8 44 |
| 25 | 15 | 55 | 0 31 | 12 0 | 2 29 | 15 22 | 0 57 | 8 32 |
| 28 | 15 | 54 | 0 31 | 11 58 | 2 29 | 15 19 | 0 57 | 8 20 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 0 38 41 | 11 35 49 | 4 N 35 | 10 23 | 1 S 39 | 20 N 24 | 3 m 53 |
| 2 | S | 0 42 38 | 12 34 54 | 4 59 | 22 33 | 2 39 | 20 36 | 3 51 |
| 3 | S | 0 46 34 | 13 33 56 | 5 21 | 5 0 | 3 33 | 19 49 | 3 48 |
| 4 | M | 0 50 31 | 14 32 56 | 5 44 | 17 48 | 4 19 | 18 0 | 3 46 |
| 5 | Tu | 0 54 27 | 15 31 54 | 6 7 | 1 1 | 4 52 | 15 12 | 3 43 |
| 6 | W | 0 58 24 | 16 30 49 | 6 30 | 14 42 | 5 10 | 11 30 | 3 41 |
| 7 | Th | 1 2 21 | 17 29 42 | 6 52 | 28 51 | 5 10 | 7 2 | 3 38 |
| 8 | F | 1 6 17 | 18 28 32 | 7 15 | 13 28 | 4 50 | 2 2 | 3 36 |
| 9 | S | 1 10 14 | 19 27 21 | 7 39 | 28 26 | 4 11 | 3 S 13 | 3 33 |
| 10 | S | 1 14 10 | 20 26 7 | 7 59 | 13 38 | 3 13 | 8 21 | 3 31 |
| 11 | M | 1 18 7 | 21 24 52 | 8 21 | 28 53 | 2 1 | 12 59 | 3 29 |
| 12 | Tu | 1 22 3 | 22 23 34 | 8 43 | 14 3 | 0 41 | 16 43 | 3 26 |
| 13 | W | 1 26 0 | 23 22 15 | 9 5 | 28 56 | 0 N 41 | 19 17 | 3 24 |
| 14 | Th | 1 29 56 | 24 20 54 | 9 27 | 13 28 | 1 58 | 20 29 | 3 21 |
| 15 | F | 1 33 53 | 25 19 31 | 9 48 | 27 34 | 3 5 | 20 21 | 3 19 |
| 16 | S | 1 37 50 | 26 18 6 | 10 10 | 11 14 | 4 0 | 19 0 | 3 16 |
| 17 | S | 1 41 46 | 27 16 40 | 10 31 | 24 28 | 4 41 | 16 39 | 3 14 |
| 18 | M | 1 45 43 | 28 15 12 | 10 52 | 7 20 | 5 5 | 13 32 | 3 11 |
| 19 | Tu | 1 49 39 | 29 13 43 | 11 13 | 19 53 | 5 15 | 9 53 | 3 9 |
| 20 | W | 1 53 36 | 0 12 12 | 11 33 | 2 11 | 5 10 | 5 53 | 3 6 |
| 21 | Th | 1 57 32 | 1 10 40 | 11 54 | 14 16 | 4 51 | 1 43 | 3 4 |
| 22 | F | 2 1 29 | 2 9 6 | 12 14 | 26 14 | 4 19 | 2 N 28 | 3 1 |
| 23 | S | 2 5 25 | 3 7 30 | 12 34 | 8 5 | 3 37 | 6 32 | 2 59 |
| 24 | S | 2 9 22 | 4 5 52 | 12 54 | 19 54 | 2 45 | 10 20 | 2 57 |
| 25 | M | 2 13 18 | 5 4 13 | 13 13 | 1 42 | 1 46 | 13 45 | 2 54 |
| 26 | Tu | 2 17 15 | 6 2 32 | 13 33 | 13 31 | 0 43 | 16 36 | 2 52 |
| 27 | W | 2 21 12 | 7 0 49 | 13 52 | 25 24 | 0 S 23 | 18 46 | 2 49 |
| 28 | Th | 2 25 8 | 7 59 4 | 14 11 | 7 23 | 1 28 | 20 7 | 2 46 |
| 29 | F | 2 29 5 | 8 57 18 | 14 30 | 19 30 | 2 30 | 20 33 | 2 44 |
| 30 | S | 2 33 1 | 9 55 29 | 14 48 | 1 49 | 3 26 | 20 1 | 2 42 |

.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|-------------------|------------|-------------|------------|-------------|-------------|------------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 81 | 11 3 55 | 2 N 29 | 15 3 15 | 0 8 58 | 8 8 8 |
| 2 | 15 | 54 | 0 81 | 11 53 | 2 29 | 15 11 | 0 58 | 7 57 |
| 7 | 15 | 53 | 0 81 | 11 49 | 2 29 | 15 8 | 0 59 | 7 46 |
| 10 | 15 | 53 | 0 81 | 11 46 | 2 29 | 15 5 | 1 0 | 7 36 |
| 13 | 15 | 51 | 0 81 | 11 44 | 2 29 | 15 1 | 1 1 | 7 26 |
| 17 | 15 | 51 | 0 81 | 11 43 | 2 29 | 14 58 | 1 1 | 7 16 |
| 19 | 15 | 50 | 0 81 | 11 40 | 2 28 | 14 54 | 1 2 | 7 7 |
| 22 | 15 | 50 | 0 81 | 11 39 | 2 28 | 14 51 | 1 3 | 6 58 |
| 25 | 15 | 49 | 0 81 | 11 36 | 2 28 | 14 48 | 1 4 | 6 49 |
| 28 | 15 | 49 | 0 81 | 11 34 | 2 28 | 14 45 | 1 4 | 6 40 |
| 31 | 15 | 48 | 0 81 | 11 33 | 2 28 | 14 42 | 1 5 | 6 33 |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | ■ | 2 36 58 | 10 5 53 36 | 15 N 6 | 14 25 22 | 4 8 14 | 18 N 29 | 2 m 39 |
| 2 | M | 2 40 54 | 11 51 46 | 15 24 | 27 12 | 4 50 16 | 0 | 2 R 37 |
| 3 | Tu | 2 44 51 | 12 49 51 | 15 42 | 10 52 23 | 5 12 12 | 39 | 2 34 |
| 4 | W | 2 48 47 | 13 47 54 | 16 0 | 23 57 | 5 17 8 | 33 | 2 32 |
| 5 | Th | 2 52 44 | 14 45 56 | 16 17 | 7 m 55 | 5 5 3 | 54 | 2 30 |
| 6 | F | 2 56 41 | 15 43 56 | 16 34 | 22 16 | 4 38 18 | 6 | 2 27 |
| 7 | S | 3 0 37 | 16 41 58 | 16 51 | 6 m 59 | 3 48 6 | 11 | 2 25 |
| 8 | S | 3 4 34 | 17 39 41 | 17 7 | 21 57 | 2 36 10 | 59 | 2 22 |
| 9 | M | 3 8 30 | 18 37 44 | 17 23 | 7 m 8 | 1 19 15 | 7 | 2 19 |
| 10 | Tu | 3 12 27 | 19 35 36 | 17 39 | 22 9 | 0 N 4 18 | 16 | 2 17 |
| 11 | W | 3 16 23 | 20 33 28 | 17 54 | 7 7 5 | 1 26 20 | 5 | 2 14 |
| 12 | Th | 3 20 20 | 21 31 17 | 18 10 | 21 48 | 2 41 20 | 31 | 2 12 |
| 13 | F | 3 24 16 | 22 29 6 | 18 24 | 5 v 59 | 3 44 19 | 36 | 2 9 |
| 14 | S | 3 28 13 | 23 26 53 | 18 39 | 19 48 | 4 31 17 | 32 | 2 7 |
| 15 | S | 3 32 10 | 24 24 39 | 18 53 | 8 m 11 | 5 2 14 | 34 | 2 4 |
| 16 | M | 3 36 6 | 25 22 24 | 19 7 | 16 8 | 5 17 10 | 56 | 2 2 |
| 17 | Tu | 3 40 3 | 26 20 8 | 19 21 | 28 44 | 5 15 6 | 59 | 2 0 |
| 18 | W | 3 43 59 | 27 17 52 | 19 34 | 11 x 1 | 4 59 2 | 49 | 1 58 |
| 19 | Th | 3 47 56 | 28 15 38 | 19 47 | 23 5 | 4 31 1 N 23 | | 1 56 |
| 20 | F | 3 51 52 | 29 13 14 | 20 0 | 4 r 59 | 3 50 5 | 30 | 1 54 |
| 21 | S | 3 55 49 | 0 11 10 | 20 12 | 16 48 | 3 1 9 | 23 | 1 52 |
| 22 | S | 3 59 46 | 1 8 33 | 20 24 | 28 25 | 2 8 12 | 54 | 1 50 |
| 23 | M | 4 3 42 | 2 6 11 | 20 36 | 10 8 24 | 1 1 15 | 56 | 1 48 |
| 24 | Tu | 4 7 39 | 3 3 48 | 20 47 | 22 16 | 0 8 5 18 | 17 | 1 46 |
| 25 | W | 4 11 35 | 4 1 24 | 20 58 | 4 11 20 | 1 11 19 | 52 | 1 44 |
| 26 | Th | 4 15 32 | 4 58 53 | 21 9 | 16 31 | 2 15 20 | 32 | 1 42 |
| 27 | F | 4 19 28 | 5 56 32 | 21 19 | 28 52 | 3 13 20 | 14 | 1 40 |
| 28 | S | 4 23 25 | 6 54 4 | 21 29 | 11 52 26 | 4 3 18 | 56 | 1 38 |
| 29 | S | 4 27 21 | 7 51 35 | 21 36 | 24 13 | 4 41 18 | 40 | 1 36 |
| 30 | M | 4 31 18 | 8 49 4 | 21 47 | 7 12 14 | 5 7 13 | 32 | 1 34 |
| 31 | Tu | 4 35 15 | 9 46 33 | 21 56 | 30 32 | 5 16 9 | 40 | 1 32 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 08 13 | 14 N 6 | 18 38 | 4 N 41 | 28 49 | 3 N 59 | 22 m 9 |
| 4 | 0 11 | 14 49 | 1 37 | 6 21 | 2 41 | 5 48 | 21 59 |
| 7 | 0 9 | 15 32 | 1 36 | 7 33 | 2 28 | 7 47 | 21 50 |
| 10 | 0 7 | 16 12 | 1 34 | 8 55 | 2 11 | 9 52 | 21 40 |
| 13 | 0 5 | 16 53 | 1 32 | 10 15 | 1 49 | 12 2 | 21 31 |
| 16 | 0 3 | 17 30 | 1 29 | 11 31 | 1 23 | 14 14 | 21 21 |
| 19 | 0 1 | 18 7 | 1 25 | 12 48 | 0 54 | 16 27 | 21 12 |
| 22 | 0 0 | 18 42 | 1 21 | 14 0 | 0 22 | 18 35 | 21 2 |
| 25 | 0 N 2 | 19 16 | 1 17 | 15 11 | 0 N 9 | 20 33 | 20 53 |
| 28 | 0 4 | 20 46 | 1 11 | 16 16 | 0 40 | 22 16 | 20 43 |
| 31 | 0 6 | 21 16 | 1 6 | 17 26 | 1 8 | 23 39 | 20 34 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|--------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° |
| 1 | 19 m 35 | 11 x 32 | 8 x 22 | 15 r 58 | 16 r 45 | | * | | Δ | Δ | * | □ | □ |
| 2 | 19 R 31 | 11 43 | 9 6 | 17 11 | 18 11 | ☉ * ♄ | □ | | | | | | |
| 3 | 19 26 | 11 53 | 9 50 | 18 24 | 19 41 | | □ | | | | □ | | |
| 4 | 19 22 | 12 3 | 10 34 | 19 37 | 21 16 | | | | □ | | Δ | Δ | |
| 5 | 19 17 | 12 13 | 11 18 | 20 50 | 22 52 | | Δ | * | | ♊ | Δ | | |
| 6 | 19 13 | 12 23 | 12 22 | 22 3 | 24 28 | | | | * | | | | |
| 7 | 19 8 | 12 33 | 12 46 | 23 16 | 26 5 | ♊ * ♄ | | | | | | | |
| 8 | 19 4 | 12 43 | 18 30 | 24 29 | 27 45 | | | | | | | ♊ | ♊ |
| 9 | 18 59 | 12 52 | 14 14 | 25 42 | 29 27 | ☉ ♂ ♈ | ♊ | ♊ | | Δ | ♊ | | |
| 10 | 18 55 | 13 2 | 14 58 | 26 55 | 1 x 12 | | ♊ | | ♊ | | | | |
| 11 | 18 50 | 13 11 | 15 41 | 28 8 | 2 58 | ♀ ♂ ♈ | | | | | □ | | |
| 12 | 18 46 | 13 21 | 16 25 | 29 21 | 4 46 | | | | | | | | |
| 13 | 18 41 | 13 30 | 17 8 | 0 x 34 | 6 37 | | | * | | * | | Δ | Δ |
| 14 | 18 37 | 13 39 | 17 52 | 1 47 | 8 30 | | Δ | | * | * | Δ | | |
| 15 | 18 32 | 13 48 | 18 35 | 3 0 | 10 24 | ♀ ♂ ♈ | | □ | | | | □ | |
| 16 | 18 28 | 13 57 | 19 19 | 4 13 | 12 20 | ♊ ♂ ♈ | | | □ | | | □ | □ |
| 17 | 18 24 | 14 6 | 20 2 | 5 26 | 14 18 | ♀ * ♄ | □ | Δ | | | ♊ | | |
| 18 | 18 19 | 14 15 | 20 45 | 6 39 | 16 18 | | | | | ♊ | | * | * |
| 19 | 18 15 | 14 23 | 21 28 | 7 52 | 18 20 | ♀ ♂ ♈ | * | | Δ | | * | | * |
| 20 | 18 11 | 14 31 | 22 12 | 9 5 | 20 24 | | | | | | | | |
| 21 | 18 7 | 14 39 | 22 55 | 10 18 | 22 29 | ♀ ♂ ♂ | | | | | | | |
| 22 | 18 2 | 14 47 | 23 38 | 11 31 | 24 36 | | | ♊ | | | | | |
| 23 | 17 58 | 14 55 | 24 21 | 12 44 | 26 44 | | | | | * | | ♊ | |
| 24 | 17 54 | 15 3 | 25 4 | 13 57 | 28 54 | | | | ♊ | | ♊ | | |
| 25 | 17 49 | 15 11 | 25 47 | 15 11 | 1 11 | ♀ * ♄ | ♊ | | | | | | ♊ |
| 26 | 17 45 | 15 18 | 26 30 | 16 24 | 3 20 | ♀ ♂ ♈ | | | | | □ | | |
| 27 | 17 41 | 15 25 | 27 13 | 17 37 | 5 27 | ☉ ♂ ♈ | | | Δ | | | | |
| 28 | 17 37 | 15 32 | 27 56 | 18 50 | 7 39 | | | | | Δ | Δ | | |
| 29 | 17 33 | 15 39 | 28 39 | 20 3 | 9 51 | | | | | | | * | * |
| 30 | 17 29 | 15 46 | 29 21 | 21 16 | 12 3 | | * | □ | | | | | * |
| 31 | 17 25 | 15 53 | 0 11 | 22 29 | 14 14 | | | | | | | □ | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 31 | 11 S 32 | 2 N 27 | 14 S 41 | 1 S 6 | 6 S 32 |
| 4 | 15 | 48 | 0 31 | 11 30 | 2 27 | 14 39 | 1 6 | 6 26 |
| 7 | 15 | 47 | 0 31 | 11 28 | 2 26 | 14 36 | 1 7 | 6 20 |
| 10 | 15 | 47 | 0 31 | 11 26 | 2 26 | 14 33 | 1 8 | 6 15 |
| 13 | 15 | 46 | 0 30 | 11 25 | 2 25 | 14 31 | 1 9 | 6 10 |
| 16 | 15 | 46 | 0 30 | 11 24 | 2 24 | 14 29 | 1 9 | 6 6 |
| 19 | 15 | 46 | 0 30 | 11 23 | 2 23 | 14 27 | 1 10 | 6 2 |
| 22 | 15 | 46 | 0 30 | 11 23 | 2 23 | 14 25 | 1 11 | 5 59 |
| 25 | 15 | 46 | 0 30 | 11 22 | 2 22 | 14 24 | 1 12 | 5 56 |
| 28 | 15 | 45 | 0 30 | 11 22 | 2 22 | 14 23 | 1 12 | 5 54 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 4 39 11 | 10 11 44 | 0 23 N 5 | 4 17 7 | 5 S 8 | 5 N 14 | 1 11 30 |
| 2 | Th | 4 43 8 | 11 41 25 | 22 12 17 | 58 | 4 42 | 0 26 | 1 12 28 |
| 3 | F | 4 47 4 | 12 38 50 | 22 20 2 | 7 | 3 59 | 4 S 30 | 1 12 27 |
| 4 | S | 4 51 1 | 13 36 13 | 22 27 16 | 31 | 3 0 | 9 16 | 1 12 25 |
| 5 | S | 4 54 57 | 14 33 36 | 22 34 1 | 8 | 1 49 | 13 35 | 1 12 23 |
| 6 | M | 4 58 54 | 15 30 57 | 22 40 15 | 54 | 0 30 | 17 5 | 1 12 21 |
| 7 | Tu | 5 2 50 | 16 28 17 | 22 46 0 | 41 | 0 N 52 | 19 28 | 1 12 20 |
| 8 | W | 5 6 47 | 17 25 37 | 22 52 15 | 23 | 2 9 | 20 31 | 1 12 18 |
| 9 | Th | 5 10 44 | 18 22 55 | 22 57 29 | 54 | 3 17 | 20 11 | 1 12 17 |
| 10 | F | 5 14 40 | 19 20 14 | 23 2 14 | 7 | 4 11 | 18 33 | 1 12 15 |
| 11 | S | 5 18 37 | 20 17 31 | 23 6 27 | 58 | 4 48 | 15 52 | 1 12 14 |
| 12 | S | 5 22 33 | 21 14 48 | 23 10 11 | 24 | 5 9 | 12 25 | 1 12 13 |
| 13 | M | 5 26 30 | 22 12 5 | 23 14 24 | 25 | 5 13 | 8 28 | 1 12 11 |
| 14 | Tu | 5 30 26 | 23 9 21 | 23 17 7 | 4 | 5 1 | 4 16 | 1 12 10 |
| 15 | W | 5 34 23 | 24 6 37 | 23 20 19 | 23 | 4 36 | 0 N 1 | 1 12 9 |
| 16 | Th | 5 38 19 | 25 3 53 | 23 22 1 | 28 | 3 58 | 4 13 | 1 12 8 |
| 17 | F | 5 42 16 | 26 1 9 | 23 24 13 | 22 | 3 11 | 8 13 | 1 12 7 |
| 18 | S | 5 46 13 | 26 58 24 | 23 26 25 | 11 | 2 16 | 11 52 | 1 12 6 |
| 19 | S | 5 50 9 | 27 55 40 | 23 27 6 | 59 | 1 16 | 15 3 | 1 12 5 |
| 20 | M | 5 54 6 | 28 52 55 | 23 27 18 | 52 | 0 11 | 17 38 | 1 12 4 |
| 21 | Tu | 5 58 2 | 29 50 10 | 23 28 0 | 52 | 0 S 54 | 19 29 | 1 12 3 |
| 22 | W | 6 1 59 | 0 47 25 | 23 28 13 | 4 | 1 57 | 20 27 | 1 12 2 |
| 23 | Th | 6 5 55 | 1 44 39 | 23 27 25 | 23 | 2 56 | 20 27 | 1 12 1 |
| 24 | F | 6 9 52 | 2 41 54 | 23 26 8 | 7 | 3 48 | 19 25 | 1 12 1 |
| 25 | S | 6 13 48 | 3 39 8 | 23 25 21 | 1 | 4 29 | 17 23 | 1 12 0 |
| 26 | S | 6 17 45 | 4 36 21 | 23 23 4 | 10 | 4 56 | 14 26 | 0 12 59 |
| 27 | M | 6 21 42 | 5 33 35 | 23 21 17 | 31 | 5 8 | 10 42 | 0 12 59 |
| 28 | Tu | 6 25 38 | 6 30 48 | 23 18 1 | 5 | 5 3 | 6 22 | 0 12 58 |
| 29 | W | 6 29 35 | 7 28 1 | 23 15 14 | 50 | 4 40 | 1 40 | 0 12 57 |
| 30 | Th | 6 33 31 | 8 25 13 | 23 12 28 | 45 | 4 2 | 3 S 12 | 0 12 57 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 7 | 20 N 27 | 1 S 4 | 17 N 41 | 1 N 16 | 24 N 2 | 20 m 80 |
| 4 | 0 9 | 20 54 | 0 58 | 18 38 | 1 37 | 24 53 | 20 20 |
| 7 | 0 11 | 21 20 | 0 52 | 19 32 | 1 52 | 25 19 | 20 11 |
| 10 | 0 13 | 21 45 | 0 46 | 20 18 | 2 0 | 25 23 | 20 1 |
| 13 | 0 14 | 22 5 | 0 39 | 21 5 | 2 2 | 25 5 | 19 52 |
| 16 | 0 16 | 23 25 | 0 32 | 21 55 | 1 57 | 24 30 | 19 42 |
| 19 | 0 18 | 22 44 | 0 25 | 22 17 | 1 45 | 23 41 | 19 33 |
| 22 | 0 20 | 22 59 | 0 18 | 22 46 | 1 28 | 22 41 | 19 23 |
| 25 | 0 22 | 23 14 | 0 10 | 23 6 | 1 6 | 21 32 | 19 14 |
| 28 | 0 24 | 23 29 | 0 3 | 23 23 | 0 38 | 20 19 | 19 4 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 17 m 21 | 16 x 0 | 0 n 46 | 23 s 43 | 16 n 25 | | | * | | ☐ | | | |
| 2 | 17 B 17 | 16 6 | 1 29 | 24 56 | 18 35 | | ☐ | | * | ♄ | | | ☐ |
| 3 | 17 13 | 16 12 | 2 11 | 26 9 | 20 43 | | | | | | Δ | Δ | |
| 4 | 17 9 | 16 18 | 2 53 | 27 23 | 22 48 | | Δ | | | | | | Δ |
| 5 | 17 5 | 16 24 | 3 36 | 28 36 | 24 52 | | | ♄ | | | | | |
| 6 | 17 1 | 16 30 | 4 18 | 29 49 | 26 55 | | | | ♄ | Δ | | ♄ | |
| 7 | 16 58 | 16 36 | 5 0 | 1 n 3 | 28 57 | ☉ ☐ ♄ | | | | | ♄ | ♄ | |
| 8 | 16 54 | 16 41 | 5 42 | 2 16 | 0 s 57 | ☿ Δ ♄ | ♄ | | | ☐ | | | |
| 9 | 16 51 | 16 46 | 6 24 | 3 29 | 2 54 | | | * | | | | | ♄ |
| 10 | 16 48 | 16 51 | 7 6 | 4 42 | 4 47 | ♄ Δ ♄ | | | * | * | | | |
| 11 | 16 44 | 16 56 | 7 48 | 5 55 | 6 38 | | | ☐ | | | | | |
| 12 | 16 41 | 17 1 | 8 30 | 7 8 | 8 28 | | | | ☐ | | Δ | Δ | |
| 13 | 16 38 | 17 6 | 9 12 | 8 22 | 10 16 | | Δ | | | | | | |
| 14 | 16 35 | 17 10 | 9 54 | 9 35 | 12 2 | | | Δ | | | ☐ | ☐ | Δ |
| 15 | 16 32 | 17 14 | 10 36 | 10 48 | 13 45 | ♄ ☉ ♄ | ☐ | | Δ | ♄ | | | |
| 16 | 16 29 | 17 18 | 11 18 | 12 2 | 15 24 | | | | | | | | |
| 17 | 16 26 | 17 22 | 11 59 | 13 15 | 17 2 | ☿ Δ ♄ | | | | | * | * | ☐ |
| 18 | 16 23 | 17 26 | 12 41 | 14 28 | 18 37 | ☿ Δ ♄ | * | | | | | | |
| 19 | 16 20 | 17 30 | 13 22 | 15 42 | 20 10 | | | ♄ | | | | | |
| 20 | 16 17 | 17 33 | 14 4 | 16 55 | 21 40 | ♀ ☐ ♄ | | | ♄ | * | | | * |
| 21 | 16 14 | 17 36 | 14 45 | 18 9 | 23 8 | | | | | | | | |
| 22 | 16 12 | 17 39 | 15 27 | 19 22 | 24 34 | ☉ Δ ♄ | | | | ☐ | ♄ | ♄ | |
| 23 | 16 9 | 17 42 | 16 8 | 20 36 | 25 57 | | | Δ | | | | | |
| 24 | 16 6 | 17 45 | 16 50 | 21 49 | 27 17 | | ♄ | | | | | | |
| 25 | 16 4 | 17 47 | 17 31 | 23 3 | 28 34 | ♄ ☐ ♄ | | | Δ | Δ | | | |
| 26 | 16 2 | 17 49 | 18 13 | 24 16 | 29 49 | | | ☐ | | | | | ♄ |
| 27 | 16 0 | 17 51 | 18 54 | 25 30 | 1 s 1 | ☿ ☐ ♄ | | | ☐ | | * | | |
| 28 | 15 58 | 17 53 | 19 35 | 26 43 | 2 10 | | * | * | | | * | * | |
| 29 | 15 56 | 17 55 | 20 16 | 27 57 | 3 17 | | | | * | ♄ | ☐ | | |
| 30 | 15 54 | 17 57 | 20 57 | 29 10 | 4 20 | | | | | | ☐ | | |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 30 | 11 S 21 | 2 N 21 | 14 S 22 | 1 S 14 | 5 S 54 |
| 4 | 15 | 45 | 0 30 | 11 21 | 2 20 | 14 21 | 1 15 | 5 54 |
| 7 | 15 | 45 | 0 30 | 11 21 | 2 19 | 14 20 | 1 16 | 5 54 |
| 10 | 15 | 46 | 0 30 | 11 21 | 2 19 | 14 20 | 1 17 | 5 55 |
| 13 | 15 | 46 | 0 30 | 11 21 | 2 18 | 14 20 | 1 18 | 5 57 |
| 16 | 15 | 46 | 0 29 | 11 22 | 2 17 | 14 21 | 1 19 | 6 0 |
| 19 | 15 | 46 | 0 29 | 11 22 | 2 16 | 14 21 | 1 20 | 6 3 |
| 22 | 15 | 46 | 0 29 | 11 22 | 2 16 | 14 22 | 1 21 | 6 7 |
| 25 | 15 | 47 | 0 29 | 11 23 | 2 15 | 14 23 | 1 22 | 6 11 |
| 28 | 15 | 47 | 0 29 | 11 24 | 2 15 | 14 24 | 1 22 | 6 16 |
| 31 | 15 | 47 | 0 29 | 11 25 | 2 14 | 14 25 | 1 23 | 6 22 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 6 37 28 | 9 22 25 | 23 N 8 | 12 48 | 3 S 8 | 7 S 57 | 0 m 56 |
| 2 | S | 6 41 24 | 10 19 36 | 23 4 | 27 0 | 2 212 | 18 | 0 R 56 |
| 3 | S | 6 45 21 | 11 16 48 | 22 59 | 11 m 17 | 0 48 | 16 0 | 0 56 |
| 4 | M | 6 49 18 | 12 13 59 | 22 54 | 25 39 | 0 N 29 | 18 43 | 0 55 |
| 5 | Tu | 6 53 14 | 13 11 9 | 22 48 | 10 † 1 | 1 44 | 20 15 | 0 55 |
| 6 | W | 6 57 11 | 14 8 20 | 22 43 | 24 21 | 2 53 | 20 28 | 0 55 |
| 7 | Th | 7 1 7 | 15 5 31 | 22 36 | 8 w 32 | 3 50 | 19 22 | 0 55 |
| 8 | F | 7 5 4 | 16 2 42 | 22 30 | 22 30 | 4 32 | 17 7 | 0 55 |
| 9 | S | 7 9 0 | 16 59 53 | 22 23 | 6 m 10 | 4 57 | 13 57 | 0 D 55 |
| 10 | S | 7 12 57 | 17 57 5 | 22 15 | 19 30 | 5 51 | 10 9 | 0 55 |
| 11 | M | 7 16 53 | 18 54 16 | 22 8 | 2 * 29 | 4 58 | 5 58 | 0 55 |
| 12 | Tu | 7 20 50 | 19 51 29 | 21 59 | 15 7 | 4 35 | 1 38 | 0 56 |
| 13 | W | 7 24 47 | 20 48 42 | 21 51 | 27 26 | 4 1 | 2 N 40 | 0 56 |
| 14 | Th | 7 28 43 | 21 45 55 | 21 42 | 9 r 30 | 3 16 | 6 46 | 0 56 |
| 15 | F | 7 32 40 | 22 43 9 | 21 33 | 21 25 | 2 23 | 10 34 | 0 57 |
| 16 | S | 7 36 36 | 23 40 24 | 21 23 | 3 8 14 | 1 24 | 13 56 | 0 57 |
| 17 | S | 7 40 33 | 24 37 40 | 21 13 | 15 4 | 0 22 | 16 43 | 0 58 |
| 18 | M | 7 44 29 | 25 34 57 | 21 3 | 26 59 | 0 S 41 | 18 50 | 0 58 |
| 19 | Tu | 7 48 26 | 26 32 14 | 20 52 | 9 Π 4 | 1 44 | 20 7 | 0 58 |
| 20 | W | 7 52 22 | 27 29 32 | 20 41 | 21 24 | 2 43 | 20 29 | 0 59 |
| 21 | Th | 7 56 19 | 28 26 51 | 20 29 | 4 5 1 | 3 35 | 19 49 | 0 59 |
| 22 | F | 8 0 16 | 29 24 10 | 20 18 | 16 57 | 4 17 | 18 8 | 1 0 |
| 23 | S | 8 4 12 | 0 Ω 21 31 | 20 6 | 0 Ω 12 | 4 47 | 15 27 | 1 1 |
| 24 | S | 8 8 9 | 1 18 52 | 19 53 | 13 44 | 5 11 | 11 54 | 1 1 |
| 25 | M | 8 12 5 | 2 16 13 | 19 40 | 27 31 | 4 58 | 7 41 | 1 2 |
| 26 | Tu | 8 16 2 | 3 13 35 | 19 27 | 11 w 28 | 4 38 | 2 59 | 1 3 |
| 27 | W | 8 19 58 | 4 10 58 | 19 14 | 25 33 | 4 0 | 1 S 54 | 1 4 |
| 28 | Th | 8 23 55 | 5 8 21 | 19 0 | 9 40 | 3 8 | 6 43 | 1 5 |
| 29 | F | 8 27 51 | 6 5 44 | 18 46 | 23 49 | 2 4 | 11 11 | 1 6 |
| 30 | S | 8 31 48 | 7 3 9 | 18 32 | 7 m 57 | 0 53 | 15 0 | 1 7 |
| 31 | S | 8 35 45 | 8 0 34 | 18 17 | 22 4 | 0 N 22 | 17 57 | 1 8 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 26 | 23 N 37 | 0 N 4 | 23 N 32 | 0 N 6 | 19 N 3 | 18 m 55 |
| 4 | 0 27 | 23 45 | 0 11 | 23 36 | 0 10 | 17 47 | 18 45 |
| 7 | 0 29 | 23 53 | 0 18 | 23 32 | 1 9 | 16 35 | 18 36 |
| 10 | 0 31 | 23 57 | 0 25 | 23 23 | 1 51 | 15 29 | 18 26 |
| 13 | 0 33 | 24 0 | 0 32 | 23 8 | 2 34 | 14 22 | 18 17 |
| 16 | 0 34 | 24 1 | 0 38 | 22 44 | 3 17 | 13 47 | 18 7 |
| 19 | 0 36 | 24 1 | 0 45 | 22 19 | 3 55 | 13 18 | 17 58 |
| 22 | 0 38 | 23 59 | 0 49 | 21 42 | 4 28 | 13 6 | 17 48 |
| 25 | 0 40 | 23 54 | 0 56 | 21 6 | 4 49 | 13 14 | 17 39 |
| 28 | 0 42 | 23 48 | 1 1 | 20 18 | 4 56 | 13 40 | 17 29 |
| 31 | 0 44 | 23 40 | 1 5 | 19 27 | 4 48 | 14 20 | 17 20 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspects. | Lunar Aspects. | | | | | | | | |
|--------|---------|----|----|------|-------|-------|--------------------|----------------|-------|-------|---|---|---|---|---|---|
| | | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | |
| 1 | 16 m 53 | 17 | 58 | 21 | 38 | 0 55 | 24 | 5 12 | 21 | ♀ Δ ♈ | ☐ | | | | | * |
| 2 | 15 50 | 17 | 59 | 22 | 19 | 1 37 | 6 | 20 | | | ☉ | | | | Δ | Δ |
| 3 | 15 49 | 18 | 0 | 23 | 0 | 2 51 | 7 | 14 | | | ☉ | | ♈ | Δ | | ☐ |
| 4 | 15 47 | 18 | 1 | 23 | 41 | 4 5 | 8 | 3 | | | Δ | | | | | |
| 5 | 16 46 | 18 | 2 | 24 | 32 | 5 18 | 8 | 49 | | | | | | | | Δ |
| 6 | 15 44 | 18 | 2 | 25 | 8 | 6 32 | 9 | 32 | | | | * | | ☐ | | |
| 7 | 15 43 | 18 | 2 | 25 | 43 | 7 46 | 10 | 13 | | | | | | | ♈ | |
| 8 | 15 42 | 18 | 2 | 26 | 24 | 8 59 | 10 | 50 | ☉ Δ ♈ | ♈ | | * | | | | |
| 9 | 15 41 | 18 | 2 | 27 | 4 | 10 13 | 11 | 22 | | | ☐ | | | | | ♈ |
| 10 | 15 40 | 18 | 2 | 27 | 45 | 11 27 | 11 | 49 | ☉ Δ ♈ | | | ☐ | | | | |
| 11 | 15 39 | 18 | 1 | 28 | 25 | 12 40 | 12 | 12 | | | | Δ | | | Δ | |
| 12 | 15 38 | 18 | 0 | 29 | 6 | 13 54 | 12 | 31 | | | Δ | | ♈ | | Δ | |
| 13 | 15 38 | 17 | 59 | 29 | 46 | 15 8 | 12 | 46 | ♀ Δ ♈ | | | | | ☐ | | |
| 14 | 15 37 | 17 | 58 | 0 23 | 16 21 | 12 58 | | | ♈ Δ ♈ | | | | | | | Δ |
| 15 | 15 37 | 17 | 56 | 1 | 7 | 17 35 | 13 | 1 | ♀ Δ ♈ | ☐ | | | | | ☐ | |
| 16 | 15 37 | 17 | 54 | 1 | 48 | 18 49 | 13 | 0 | | | | ♈ | | | * | |
| 17 | 15 36 | 17 | 52 | 2 | 28 | 20 2 | 12 | 55 | | | | | ♈ | * | * | ☐ |
| 18 | 15 36 | 17 | 50 | 3 | 8 | 21 16 | 12 | 46 | | * | | | | | | |
| 19 | 15 36 | 17 | 48 | 3 | 48 | 22 30 | 12 | 32 | | | | | | | | * |
| 20 | 15 36 | 17 | 46 | 4 | 28 | 23 44 | 12 | 18 | | | | | | ☐ | | |
| 21 | 15 36 | 17 | 43 | 5 | 8 | 24 58 | 11 | 49 | | | | | | | ♈ | |
| 22 | 15 36 | 17 | 40 | 5 | 48 | 26 12 | 11 | 20 | | | | | | | | |
| 23 | 15 36 | 17 | 37 | 6 | 28 | 27 26 | 10 | 47 | | | | | | | | |
| 24 | 15 37 | 17 | 34 | 7 | 8 | 28 40 | 10 | 11 | ☉ ☐ ♈ | ☉ | | | | | ♈ | ♈ |
| 25 | 15 37 | 17 | 31 | 7 | 48 | 29 54 | 9 | 33 | ♀ ☐ ♈ | | | | | | | |
| 26 | 15 37 | 17 | 27 | 8 | 28 | 1 2 | 8 | 52 | | | | | * | ♈ | * | |
| 27 | 15 38 | 17 | 23 | 9 | 8 | 2 22 | 8 | 9 | | | | | | | | |
| 28 | 15 39 | 17 | 19 | 9 | 37 | 3 36 | 7 | 23 | | * | | | | ☐ | * | * |
| 29 | 15 40 | 17 | 15 | 10 | 27 | 4 50 | 6 | 38 | ☉ ☉ ♈ | | | | | | | |
| 30 | 15 41 | 17 | 11 | 11 | 6 | 6 4 | 5 | 54 | ♀ ☉ ♈ | ☐ | ☉ | | | Δ | ☐ | ☐ |
| 31 | 15 42 | 17 | 7 | 11 | 46 | 7 18 | 5 | 11 | | | | | ♈ | Δ | | |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 44 | 23 N 37 | 1 N 8 | 10 N 14 | 4 S 42 | 14 N 36 | 17 m 17 |
| 4 | 0 45 | 23 26 | 1 12 | 18 14 | 4 13 | 15 27 | 17 7 |
| 7 | 0 47 | 23 15 | 1 16 | 17 16 | 3 32 | 16 20 | 16 58 |
| 10 | 0 49 | 23 0 | 1 19 | 16 5 | 2 44 | 17 7 | 16 48 |
| 13 | 0 51 | 22 46 | 1 21 | 15 1 | 1 53 | 17 44 | 16 39 |
| 16 | 0 52 | 22 30 | 1 23 | 13 45 | 1 2 | 18 3 | 16 29 |
| 19 | 0 54 | 22 12 | 1 24 | 12 31 | 0 16 | 18 3 | 16 19 |
| 22 | 0 56 | 21 53 | 1 25 | 11 9 | 0 N 25 | 17 37 | 16 10 |
| 25 | 0 57 | 21 31 | 1 25 | 9 49 | 0 59 | 16 45 | 16 0 |
| 28 | 0 59 | 21 10 | 1 25 | 8 21 | 1 23 | 15 29 | 15 51 |
| 31 | 1 0 | 20 48 | 1 24 | 7 0 | 1 39 | 13 50 | 15 41 |

| D
M | ☿ | | ♈ | | ♉ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|--------|--------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 15 43 | 17 3 | 12 25 | 8 32 | 4 29 | 4 29 | | Δ | | | | | Δ | Δ |
| 2 | 15 45 | 16 58 | 13 6 | 9 46 | 3 40 | 3 40 | | | | | □ | | | |
| 3 | 15 46 | 16 53 | 13 44 | 11 0 | 3 14 | 3 14 | ☉ ☿ ♈ | * | * | * | * | ♋ | | |
| 4 | 15 48 | 16 48 | 14 24 | 12 14 | 2 45 | 2 45 | | | * | * | * | ♋ | | |
| 5 | 15 50 | 16 43 | 15 3 | 13 28 | 2 20 | 2 20 | ♋ Δ ♈ | □ | * | * | * | ♋ | | ♋ |
| 6 | 15 51 | 16 38 | 15 42 | 14 42 | 2 0 | 2 0 | | | | | | | | |
| 7 | 15 53 | 16 32 | 16 21 | 15 57 | 1 46 | 1 46 | | | | | | | | |
| 8 | 15 55 | 16 26 | 17 0 | 17 11 | 1 39 | 1 39 | | | | | | | | ♋ |
| 9 | 15 57 | 16 20 | 17 39 | 18 25 | 1 D 38 | 1 D 38 | | | | | | | | Δ |
| 10 | 15 59 | 16 14 | 18 18 | 19 39 | 1 44 | 1 44 | | | | | | | | |
| 11 | 16 1 | 16 8 | 18 57 | 20 53 | 1 57 | 1 57 | | | | | | | | Δ |
| 12 | 16 3 | 16 2 | 19 36 | 22 7 | 2 17 | 2 17 | | | | | | | | □ |
| 13 | 16 6 | 16 56 | 20 15 | 23 21 | 2 46 | 2 46 | | | | | | | | |
| 14 | 16 8 | 16 50 | 20 54 | 24 35 | 3 20 | 3 20 | | | | | | | | ♋ |
| 15 | 16 11 | 16 43 | 21 33 | 25 49 | 4 2 | 4 2 | | | | | | | | ♋ |
| 16 | 16 13 | 16 36 | 22 12 | 27 3 | 4 52 | 4 52 | | * | Δ | | □ | | * | |
| 17 | 16 16 | 16 29 | 22 51 | 28 17 | 5 48 | 5 48 | | | | Δ | Δ | | * | |
| 18 | 16 18 | 16 22 | 23 30 | 29 31 | 6 50 | 6 50 | | | | | | | | |
| 19 | 16 21 | 16 15 | 24 8 | 0 46 | 7 58 | 7 58 | | | | | | | ♋ | |
| 20 | 16 24 | 16 8 | 24 47 | 2 0 | 9 12 | 9 12 | ♀ * ♈ | □ | | | | | ♋ | ♋ |
| 21 | 16 27 | 16 1 | 25 25 | 3 14 | 10 33 | 10 33 | | | | | | | | |
| 22 | 16 30 | 16 53 | 26 4 | 4 29 | 12 0 | 12 0 | | | | | | | ♋ | |
| 23 | 16 33 | 16 46 | 26 42 | 5 48 | 13 32 | 13 32 | | | | | | | * | |
| 24 | 16 36 | 16 39 | 27 21 | 6 57 | 15 7 | 15 7 | | | | | | | | |
| 25 | 16 40 | 16 31 | 27 59 | 8 12 | 16 46 | 16 46 | | | | | | | * | |
| 26 | 16 43 | 16 23 | | | | | | * | ♋ | | □ | * | | |
| 27 | 16 47 | 16 15 | | | | | | | ♋ | ♋ | Δ | | | □ |
| 28 | 16 50 | 16 7 | | | | | | | □ | | | Δ | | |
| 29 | 16 54 | 16 0 | | | | | | ♋ | * | | □ | | ♋ | |
| 30 | 16 58 | 16 52 | | | | | | Δ | * | * | * | | Δ | Δ |
| 31 | 17 2 | 16 44 | | | | | | □ | ♈ | * | * | | Δ | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 28 | 11 S 48 | 2 N 5 | 14 S 57 | 1 S 29 | 7 S 49 |
| 4 | 15 | 54 | 0 28 | 11 51 | 2 5 | 15 2 | 1 29 | 7 58 |
| 7 | 15 | 55 | 0 28 | 11 54 | 2 4 | 15 6 | 1 30 | 8 8 |
| 10 | 15 | 56 | 0 28 | 11 57 | 2 3 | 15 10 | 1 30 | 8 18 |
| 13 | 15 | 57 | 0 28 | 12 0 | 2 2 | 15 15 | 1 30 | 8 26 |
| 16 | 15 | 57 | 0 28 | 12 3 | 2 2 | 15 20 | 1 30 | 8 35 |
| 19 | 15 | 58 | 0 27 | 12 5 | 2 1 | 15 24 | 1 30 | 8 44 |
| 22 | 15 | 59 | 0 27 | 12 8 | 2 1 | 15 29 | 1 30 | 8 52 |
| 25 | 16 | 0 | 0 27 | 12 12 | 2 0 | 15 34 | 1 29 | 9 0 |
| 28 | 16 | 0 | 0 37 | 12 16 | 2 0 | 15 39 | 1 29 | 9 7 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|----------------------|-------------|--------------------|-----------|-------------|------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 10 41 54 | 8 ^m 48 20 | 8 N 17 | 27 ^w 35 | 4 N 50 | 15 S 55 | 2 ^m 7 |
| 2 | F | 10 45 51 | 9 46 28 | 7 55 | 10 ^m 47 | 5 8 | 12 41 | 2 10 |
| 3 | S | 10 49 47 | 10 44 38 | 7 33 | 23 46 | 5 0 | 8 54 | 2 12 |
| 4 | S | 10 53 44 | 11 42 49 | 7 11 | 6 ^x 32 | 4 41 | 4 46 | 2 15 |
| 5 | M | 10 57 41 | 12 41 1 | 6 48 | 19 5 | 4 10 | 0 30 | 2 18 |
| 6 | Tu | 11 1 37 | 13 39 16 | 6 26 | 1 ^r 24 | 3 27 | 3 N 43 | 2 21 |
| 7 | W | 11 5 34 | 14 37 32 | 6 4 | 13 31 | 2 35 | 7 43 | 2 24 |
| 8 | Th | 11 9 30 | 15 35 51 | 5 41 | 25 29 | 1 37 | 11 22 | 2 27 |
| 9 | F | 11 13 27 | 16 34 11 | 5 18 | 7 ^o 19 | 0 35 | 14 31 | 2 30 |
| 10 | S | 11 17 23 | 17 32 33 | 4 56 | 19 6 | 0 S 28 | 17 3 | 2 33 |
| 11 | S | 11 21 20 | 18 30 58 | 4 33 | 0 [□] 54 | 1 31 | 18 53 | 2 37 |
| 12 | M | 11 25 16 | 19 29 24 | 4 10 | 12 48 | 2 30 | 19 53 | 2 40 |
| 13 | Tu | 11 29 13 | 20 27 53 | 3 47 | 24 54 | 3 23 | 19 59 | 2 43 |
| 14 | W | 11 33 10 | 21 26 25 | 3 24 | 7 [☽] 16 | 4 8 | 19 8 | 2 46 |
| 15 | Th | 11 37 6 | 22 24 58 | 3 1 | 20 0 | 4 42 | 17 19 | 2 49 |
| 16 | F | 11 41 3 | 23 23 34 | 2 38 | 3 ^Ω 9 | 5 3 | 14 33 | 2 52 |
| 17 | S | 11 44 59 | 24 22 11 | 2 14 | 16 45 | 5 8 | 10 56 | 2 56 |
| 18 | S | 11 48 56 | 25 20 51 | 1 51 | 0 ^m 47 | 4 54 | 6 37 | 2 59 |
| 19 | M | 11 52 52 | 26 19 33 | 1 28 | 15 13 | 4 22 | 1 48 | 3 2 |
| 20 | Tu | 11 56 49 | 27 18 17 | 1 4 | 29 55 | 3 32 | 3 S 13 | 3 5 |
| 21 | W | 12 0 45 | 28 17 3 | 0 41 | 14 [△] 48 | 2 27 | 8 6 | 3 8 |
| 22 | Th | 12 4 42 | 29 15 51 | 0 18 | 29 41 | 1 12 | 12 30 | 3 13 |
| 23 | F | 12 8 39 | 0 [△] 14 41 | 0 S 6 | 14 ^m 28 | 0 N 8 | 16 4 | 3 16 |
| 24 | S | 12 12 35 | 1 13 32 | 0 29 | 29 3 | 1 26 | 18 34 | 3 19 |
| 25 | S | 12 16 32 | 2 12 25 | 0 53 | 13 [†] 21 | 2 37 | 19 49 | 3 23 |
| 26 | M | 12 22 28 | 3 11 20 | 1 16 | 27 22 | 3 38 | 19 48 | 3 26 |
| 27 | Tu | 12 24 25 | 4 10 17 | 1 40 | 11 ^w 4 | 4 24 | 18 37 | 3 29 |
| 28 | W | 12 28 21 | 5 9 16 | 2 3 | 24 28 | 4 55 | 16 24 | 3 32 |
| 29 | Th | 12 32 18 | 6 8 16 | 2 26 | 7 ^m 36 | 5 10 | 13 23 | 3 35 |
| 30 | F | 12 36 14 | 7 7 18 | 2 50 | 20 29 | 5 9 | 9 47 | 3 38 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 1 | 20 N 38 | 1 N 24 | 6 N 28 | 1 N 42 | 13 N 18 | 15 m 38 |
| 4 | 1 3 | 20 12 | 1 22 | 4 54 | 1 47 | 11 18 | 15 28 |
| 7 | 1 5 | 19 41 | 1 20 | 3 29 | 1 46 | 9 0 | 15 19 |
| 10 | 1 7 | 19 16 | 1 17 | 1 53 | 1 39 | 6 42 | 15 9 |
| 13 | 1 8 | 18 51 | 1 14 | 0 25 | 1 28 | 4 21 | 15 0 |
| 16 | 1 10 | 18 21 | 1 10 | 1 S 8 | 1 18 | 1 59 | 14 50 |
| 19 | 1 11 | 17 51 | 1 5 | 2 39 | 0 56 | 0 S 28 | 14 41 |
| 22 | 1 13 | 17 20 | 1 0 | 4 11 | 0 38 | 2 41 | 14 31 |
| 25 | 1 14 | 16 48 | 0 55 | 5 42 | 0 17 | 4 57 | 14 22 |
| 28 | 1 16 | 16 15 | 0 49 | 7 22 | 0 S 8 | 7 8 | 14 12 |

| D
M | h | | x | | δ | | L |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 17 m 6 | 13 x 37 | 29 27 | 14 | | | |
| 2 | 17 10 | 13 R 29 | 3 6 | 11 | | | |
| 3 | 17 14 | 13 21 | 3 43 | 11 | | | |
| 4 | 17 18 | 13 13 | 4 21 | 2 | | | |
| 5 | 17 22 | 13 5 | 4 59 | 2 | | | |
| 6 | 17 26 | 12 57 | 5 37 | 2 | | | |
| 7 | 17 31 | 12 49 | 6 15 | 2 | | | |
| 8 | 17 35 | 12 41 | 6 53 | 2 | | | |
| 9 | 17 40 | 12 33 | 7 31 | 2 | | | |
| 10 | 17 44 | 12 25 | 8 8 | 2 | | | |
| 11 | 17 49 | 12 17 | 8 46 | 2 | | | |
| 12 | 17 54 | 12 9 | 9 24 | 1 | | | |
| 13 | 17 59 | 12 2 | 10 1 | | | | |
| 14 | 18 4 | 11 54 | 10 39 | | | | |
| 15 | 18 11 | 11 46 | 11 16 | | | | |

| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|--|---|---|---|---|---|---|---|
| 16 | 18 | 14 | 11 | 38 | 11 | 53 | 5 | 29 | 27 | 51 | | | □ | | | * | * | |
| 17 | 18 | 19 | 11 | 31 | 12 | 31 | 6 | 44 | 29 | 37 | | | □ | | ♂ | | | |
| 18 | 18 | 24 | 11 | 23 | 13 | 8 | 7 | 58 | 1 | 22 | | | ■ | | | | | |
| 19 | 18 | 29 | 11 | 16 | 13 | 45 | 9 | 13 | 3 | 7 | | | * | | ♂ | | | |
| 20 | 18 | 34 | 11 | 8 | 14 | 22 | 10 | 27 | 4 | 51 | | ♂ | | | | | ♂ | |
| 21 | 18 | 39 | 11 | 1 | 15 | 59 | 11 | 42 | 6 | 38 | | | | | | * | ♂ | |
| 22 | 18 | 45 | 10 | 54 | 15 | 36 | 12 | 56 | 8 | 14 | | ♂ | | | | | | |
| 23 | 18 | 50 | 10 | 47 | 16 | 19 | 14 | 11 | 9 | 54 | | | ♂ | | Δ | □ | | |
| | | | | | | | | | | | | | | | □ | Δ | * | * |
| | | | | | | | | | | | | | * | | | | | □ |
| | | | | | | | | | | | | | □ | * | | | | □ |
| | | | | | | | | | | | | | | | ♂ | Δ | Δ | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 27 | 12 S 20 | 1 N 59 | 15 S 44 | 1 S 29 | 9 S 14 |
| 4 | 16 | 1 | 0 27 | 12 24 | 1 59 | 15 49 | 1 29 | 9 20 |
| 7 | 16 | 2 | 0 27 | 12 28 | 1 58 | 15 55 | 1 28 | 9 26 |
| 10 | 16 | 3 | 0 27 | 12 32 | 1 58 | 16 0 | 1 28 | 9 31 |
| 13 | 16 | 4 | 0 27 | 12 36 | 1 57 | 16 6 | 1 27 | 9 36 |
| 16 | 16 | 5 | 0 27 | 12 39 | 1 57 | 16 11 | 1 27 | 9 40 |
| 19 | 16 | 5 | 0 27 | 12 43 | 1 57 | 16 17 | 1 26 | 9 43 |
| 22 | 16 | 6 | 0 27 | 12 45 | 1 57 | 16 23 | 1 26 | 9 45 |
| 25 | 16 | 7 | 0 27 | 12 49 | 1 56 | 16 28 | 1 25 | 9 47 |
| 28 | 16 | 7 | 0 27 | 12 53 | 1 56 | 16 33 | 1 25 | 9 48 |
| 31 | 16 | 8 | 0 27 | 12 57 | 1 56 | 16 39 | 1 25 | 9 49 |

| D
M | D
W | Sidereal
Time. | | ☉
Long. | | ☉
Declin. | | ♄
Long. | | ♄
Lat. | | ♄
Declin. | | ♃
Long. | |
|--------|--------|-------------------|----|------------|----|--------------|----|------------|----|-----------|----|--------------|------|------------|------|
| | | | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| | | H. | M. | S. | | | | | | | | | | | |
| 1 | S | 12 | 40 | 11 | 8 | 6 | 22 | 3 | 13 | 3 | 9 | 4 | N 52 | 5 | S 49 |
| 2 | S | 12 | 44 | 7 | 9 | 5 | 27 | 3 | 36 | 15 | 37 | 4 | 22 | 1 | 39 |
| 3 | M | 12 | 48 | 4 | 10 | 4 | 34 | 4 | 0 | 27 | 53 | 3 | 40 | 2 | N 32 |
| 4 | Tu | 12 | 52 | 1 | 11 | 3 | 44 | 4 | 23 | 10 | 0 | 2 | 49 | 6 | 33 |
| 5 | W | 12 | 55 | 57 | 12 | 2 | 56 | 4 | 46 | 21 | 59 | 1 | 50 | 10 | 16 |
| 6 | Th | 12 | 59 | 54 | 13 | 2 | 9 | 5 | 9 | 3 | 51 | 0 | 47 | 13 | 33 |
| 7 | F | 13 | 3 | 50 | 14 | 1 | 25 | 5 | 32 | 15 | 38 | 0 | S 17 | 16 | 16 |
| 8 | S | 13 | 7 | 47 | 15 | 0 | 43 | 5 | 55 | 27 | 25 | 1 | 21 | 18 | 17 |
| 9 | S | 13 | 11 | 43 | 16 | 0 | 3 | 6 | 18 | 9 | 13 | 2 | 22 | 19 | 31 |
| 10 | M | 13 | 15 | 40 | 16 | 59 | 26 | 6 | 41 | 21 | 7 | 3 | 17 | 19 | 53 |
| 11 | Tu | 13 | 19 | 36 | 17 | 58 | 51 | 7 | 4 | 3 | 5 | 4 | 5 | 19 | 21 |
| 12 | W | 13 | 23 | 33 | 18 | 58 | 18 | 7 | 26 | 15 | 33 | 4 | 42 | 17 | 53 |
| 13 | Th | 13 | 27 | 30 | 19 | 57 | 48 | 7 | 49 | 28 | 12 | 5 | 6 | 15 | 32 |
| 14 | F | 13 | 31 | 26 | 20 | 57 | 20 | 8 | 11 | 11 | 12 | 5 | 16 | 12 | 21 |
| 15 | S | 13 | 35 | 23 | 21 | 56 | 55 | 8 | 33 | 24 | 47 | 5 | 9 | 8 | 25 |
| 16 | S | 13 | 39 | 20 | 22 | 56 | 31 | 8 | 56 | 8 | 45 | 4 | 44 | 3 | 55 |
| 17 | M | 13 | 43 | 17 | 23 | 56 | 11 | 9 | 18 | 23 | 11 | 4 | 0 | 0 | S 58 |
| 18 | Tu | 13 | 47 | 13 | 24 | 55 | 52 | 9 | 40 | 7 | 58 | 2 | 59 | 5 | 55 |
| 19 | W | 13 | 51 | 10 | 25 | 55 | 35 | 10 | 1 | 23 | 2 | 1 | 45 | 10 | 35 |
| 20 | Th | 13 | 55 | 7 | 26 | 55 | 20 | 10 | 23 | 8 | 12 | 0 | 23 | 14 | 37 |
| 21 | F | 13 | 59 | 3 | 27 | 55 | 8 | 10 | 46 | 23 | 19 | 1 | N 0 | 17 | 39 |
| 22 | S | 14 | 2 | 0 | 28 | 54 | 57 | 11 | 6 | 8 | 14 | 2 | 19 | 19 | 25 |
| 23 | S | 14 | 6 | 57 | 29 | 54 | 48 | 11 | 27 | 22 | 52 | 3 | 26 | 19 | 50 |
| 24 | M | 14 | 10 | 53 | 0 | 54 | 41 | 11 | 48 | 7 | 0 | 4 | 19 | 18 | 57 |
| 25 | Tu | 14 | 14 | 49 | 1 | 54 | 35 | 12 | 9 | 20 | 56 | 4 | 56 | 16 | 57 |
| 26 | W | 14 | 18 | 45 | 2 | 54 | 31 | 12 | 30 | 4 | 22 | 5 | 15 | 14 | 5 |
| 27 | Th | 14 | 22 | 41 | 3 | 54 | 29 | 12 | 50 | 17 | 25 | 5 | 16 | 10 | 36 |
| 28 | F | 14 | 26 | 37 | 4 | 54 | 28 | 13 | 10 | 0 | 9 | 5 | 3 | 6 | 42 |
| 29 | S | 14 | 30 | 33 | 5 | 54 | 29 | 13 | 30 | 12 | 37 | 4 | 35 | 2 | 36 |
| 30 | S | 14 | 34 | 29 | 6 | 54 | 32 | 13 | 50 | 24 | 51 | 3 | 55 | 1 | N 33 |
| 31 | M | 14 | 38 | 25 | 7 | 54 | 37 | 14 | 10 | 6 | 55 | 3 | 5 | 5 | 35 |

12th

1

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | |
|--------|-------------------|-------------------|-----------|------------|--------------|------------|-----------|--------------|------------|--------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | | | |
| 1 | 16 | 10 | 0 N 27 | 12 S 59 | 1 N 55 | 16 S 41 | 1 S 24 | 9 S 49 | | | |
| 4 | 16 | 10 | 0 27 | 13 8 | 1 55 | 16 46 | 1 23 | 9 48 | | | |
| 7 | 16 | 11 | 0 27 | 13 7 | 1 55 | 16 52 | 1 22 | 9 47 | | | |
| 10 | 16 | 12 | 0 27 | 13 11 | 1 55 | 16 57 | 1 22 | 9 45 | | | |
| 13 | 16 | 12 | 0 27 | 13 14 | 1 55 | 17 2 | 1 21 | 9 42 | | | |
| 16 | 16 | 13 | 0 27 | 13 17 | 1 55 | 17 7 | 1 21 | 9 39 | | | |
| 19 | 16 | 14 | 0 27 | 13 20 | 1 54 | 17 13 | 1 20 | 9 35 | | | |
| 22 | 16 | 14 | 0 27 | 13 23 | 1 54 | 17 18 | 1 20 | 9 30 | | | |
| 25 | 16 | 15 | 0 27 | 13 27 | 1 54 | 17 23 | 1 19 | 9 25 | | | |
| 28 | 16 | 15 | 0 27 | 13 30 | 1 54 | 17 28 | 1 19 | 9 19 | | | |
| | | | | | | | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | | |
| 1 | Tu | 14 | 42 | 21 | 8 m 54 | 42 | 14 S 29 | 18 r 51 | 2 N 7 | 9 N 21 | 5 m 35 |
| 2 | W | 14 | 46 | 17 | 9 54 | 50 | 14 48 | 0 s 43 | 1 4 | 12 44 | 5 38 |
| 3 | Th | 14 | 50 | 14 | 10 55 | 0 | 15 7 | 12 31 | 0 S 1 | 15 36 | 5 42 |
| 4 | F | 14 | 54 | 10 | 11 55 | 11 | 15 26 | 24 19 | 1 6 | 17 48 | 5 46 |
| 5 | S | 14 | 58 | 7 | 12 55 | 24 | 15 44 | 6 n 8 | 2 9 | 19 14 | 5 50 |
| 6 | S | 15 | 2 | 3 | 13 55 | 39 | 16 2 | 18 1 | 3 6 | 19 50 | 5 54 |
| 7 | M | 15 | 6 | 0 | 14 55 | 56 | 16 20 | 0 s 0 | 3 55 | 19 32 | 5 58 |
| 8 | Tu | 15 | 9 | 57 | 15 56 | 16 | 16 37 | 12 9 | 4 35 | 18 20 | 6 1 |
| 9 | W | 15 | 13 | 53 | 16 56 | 37 | 16 55 | 24 31 | 5 3 | 16 16 | 6 5 |
| 10 | Th | 15 | 17 | 50 | 17 57 | 0 | 17 12 | 7 s 9 | 5 17 | 13 23 | 6 9 |
| 11 | F | 15 | 21 | 46 | 18 57 | 25 | 17 28 | 20 7 | 5 15 | 9 48 | 6 13 |
| 12 | S | 15 | 25 | 43 | 19 57 | 52 | 17 45 | 3 m 29 | 4 57 | 5 38 | 6 17 |
| 13 | S | 15 | 29 | 39 | 20 58 | 21 | 18 1 | 17 15 | 4 21 | 1 2 | 6 20 |
| 14 | M | 15 | 33 | 36 | 21 58 | 53 | 18 17 | 1 s 28 | 3 28 | 3 S 46 | 6 24 |
| 15 | Tu | 15 | 37 | 32 | 22 59 | 25 | 18 32 | 16 4 | 2 21 | 8 30 | 6 28 |
| 16 | W | 15 | 41 | 29 | 24 0 | 0 | 18 47 | 1 m 1 | 1 3 | 12 49 | 6 32 |
| 17 | Th | 15 | 45 | 26 | 25 0 | 36 | 19 2 | 16 10 | 0 N 21 | 16 21 | 6 36 |
| 18 | F | 15 | 49 | 22 | 26 1 | 14 | 19 17 | 1 f 24 | 1 44 | 18 46 | 6 39 |
| 19 | S | 15 | 53 | 19 | 27 1 | 54 | 19 31 | 16 31 | 2 58 | 19 49 | 6 42 |
| 20 | S | 15 | 57 | 15 | 28 2 | 35 | 19 45 | 1 v 23 | 4 0 | 19 28 | 6 46 |
| 21 | M | 16 | 1 | 12 | 29 3 | 16 | 19 58 | 15 53 | 4 44 | 17 49 | 6 49 |
| 22 | Tu | 16 | 5 | 8 | 0 f 4 | 0 | 20 11 | 29 56 | 5 9 | 15 9 | 6 53 |
| 23 | W | 16 | 9 | 5 | 1 4 | 44 | 20 24 | 13 m 31 | 5 16 | 11 43 | 6 56 |
| 24 | Th | 16 | 13 | 1 | 2 5 | 30 | 20 36 | 26 39 | 5 7 | 7 50 | 6 59 |
| 25 | F | 16 | 16 | 58 | 3 6 | 16 | 20 48 | 9 x 23 | 4 42 | 8 42 | 7 2 |
| 26 | S | 16 | 20 | 55 | 4 7 | 4 | 20 59 | 21 47 | 4 4 | 0 N 29 | 7 6 |
| 27 | S | 16 | 24 | 51 | 5 7 | 52 | 21 10 | 3 r 55 | 3 17 | 4 34 | 7 9 |
| 28 | M | 16 | 28 | 48 | 6 8 | 42 | 21 21 | 15 52 | 2 21 | 8 25 | 7 13 |
| 29 | Tu | 16 | 32 | 44 | 7 9 | 32 | 21 32 | 27 42 | 1 20 | 11 55 | 7 16 |
| 30 | W | 16 | 36 | 41 | 8 10 | 24 | 21 41 | 9 s 30 | 0 16 | 14 55 | 7 20 |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 27 | 13 S 34 | 1 N 55 | 17 S 33 | 1 S 17 | 9 S 13 |
| 4 | 16 | 15 | 0 27 | 13 37 | 1 55 | 17 38 | 1 17 | 9 6 |
| 7 | 16 | 16 | 0 27 | 13 40 | 1 55 | 17 42 | 1 16 | 8 58 |
| 10 | 16 | 16 | 0 27 | 13 44 | 1 55 | 17 46 | 1 16 | 8 50 |
| 13 | 16 | 16 | 0 27 | 13 47 | 1 55 | 17 51 | 1 15 | 8 41 |
| 16 | 16 | 16 | 0 27 | 13 49 | 1 55 | 17 56 | 1 14 | 8 32 |
| 19 | 16 | 17 | 0 27 | 13 52 | 1 55 | 18 0 | 1 13 | 8 22 |
| 22 | 16 | 17 | 0 27 | 13 54 | 1 55 | 18 4 | 1 13 | 8 11 |
| 25 | 16 | 17 | 0 27 | 13 57 | 1 55 | 18 8 | 1 12 | 8 0 |
| 28 | 16 | 17 | 0 27 | 14 0 | 1 55 | 18 12 | 1 12 | 7 48 |
| 31 | 16 | 17 | 0 27 | 14 2 | 1 55 | 18 15 | 1 12 | 7 36 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ♄
Long. | | | ♄
Lat. | | | ♄
Declin | | | ♃
Long. | | |
|--------|--------|-------------------|----|----|------------|----|----|-------------|----|----|------------|----|----|-----------|----|----|-------------|----|----|------------|---|----|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | Th | 16 | 40 | 37 | 9 | 11 | 16 | 21 | 8 | 51 | 21 | 8 | 17 | 0 | S | 49 | 17 | N | 18 | 7 | m | 23 |
| 2 | F | 16 | 44 | 34 | 10 | 12 | 9 | 22 | 0 | 3 | 18 | 8 | 1 | 52 | 18 | 58 | 7 | 26 | | | | |
| 3 | S | 16 | 48 | 30 | 11 | 13 | 4 | 22 | 9 | 15 | 3 | 2 | 50 | 19 | 48 | 7 | 29 | | | | | |
| 4 | S | 16 | 52 | 27 | 12 | 13 | 59 | 22 | 17 | 27 | 6 | 3 | 41 | 19 | 44 | 7 | 32 | | | | | |
| 5 | M | 16 | 56 | 24 | 13 | 14 | 56 | 22 | 25 | 9 | 16 | 4 | 23 | 18 | 46 | 7 | 35 | | | | | |
| 6 | Tu | 17 | 0 | 20 | 14 | 15 | 54 | 22 | 32 | 21 | 37 | 4 | 53 | 16 | 54 | 7 | 38 | | | | | |
| 7 | W | 17 | 4 | 17 | 15 | 16 | 53 | 22 | 39 | 4 | 9 | 5 | 9 | 14 | 14 | 7 | 42 | | | | | |
| 8 | Th | 17 | 8 | 13 | 16 | 17 | 53 | 22 | 45 | 16 | 54 | 5 | 11 | 10 | 51 | 7 | 45 | | | | | |
| 9 | F | 17 | 12 | 10 | 17 | 18 | 54 | 22 | 51 | 29 | 54 | 4 | 57 | 6 | 53 | 7 | 48 | | | | | |
| 10 | S | 17 | 16 | 6 | 18 | 19 | 56 | 22 | 57 | 13 | m | 12 | 4 | 26 | 2 | 30 | 7 | 52 | | | | |
| 11 | S | 17 | 20 | 3 | 19 | 21 | 0 | 23 | 2 | 26 | 48 | 3 | 41 | 28 | 6 | 7 | 55 | | | | | |
| 12 | M | 17 | 24 | 0 | 20 | 22 | 4 | 23 | 7 | 10 | 45 | 2 | 41 | 6 | 44 | 7 | 58 | | | | | |
| 13 | Tu | 17 | 27 | 56 | 21 | 23 | 10 | 23 | 11 | 25 | 3 | 1 | 30 | 11 | 6 | 8 | 1 | | | | | |
| 14 | W | 17 | 31 | 53 | 22 | 24 | 16 | 23 | 15 | 9 | m | 39 | 0 | 12 | 14 | 54 | 8 | 4 | | | | |
| 15 | Th | 17 | 35 | 49 | 23 | 25 | 24 | 23 | 18 | 24 | 31 | 1 | N | 9 | 17 | 48 | 8 | 7 | | | | |
| 16 | F | 17 | 39 | 46 | 24 | 26 | 32 | 23 | 21 | 9 | f | 31 | 2 | 25 | 19 | 31 | 8 | 10 | | | | |
| 17 | S | 17 | 43 | 42 | 25 | 27 | 41 | 23 | 23 | 24 | 32 | 3 | 31 | 19 | 50 | 8 | 13 | | | | | |
| 18 | S | 17 | 47 | 39 | 26 | 28 | 50 | 23 | 25 | 9 | w | 24 | 4 | 22 | 18 | 46 | 8 | 16 | | | | |
| 19 | M | 17 | 51 | 35 | 27 | 30 | 0 | 23 | 26 | 23 | 59 | 4 | 55 | 16 | 30 | 8 | 19 | | | | | |
| 20 | Tu | 17 | 55 | 32 | 28 | 31 | 10 | 23 | 27 | 8 | m | 10 | 5 | 8 | 13 | 17 | 8 | 22 | | | | |
| 21 | W | 17 | 59 | 29 | 29 | 32 | 20 | 23 | 28 | 21 | 53 | 5 | 3 | 9 | 26 | 8 | 24 | | | | | |
| 22 | Th | 18 | 3 | 26 | 0 | w | 33 | 31 | 23 | 28 | 5 | x | 8 | 4 | 42 | 5 | 16 | 8 | 27 | | | |
| 23 | F | 18 | 7 | 22 | 1 | 34 | 42 | 23 | 27 | 17 | 57 | 4 | 7 | 0 | 58 | 8 | 30 | | | | | |
| 24 | S | 18 | 11 | 19 | 2 | 35 | 52 | 23 | 26 | 0 | r | 23 | 3 | 21 | 3 | N | 14 | 8 | 33 | | | |
| 25 | S | 18 | 15 | 16 | 3 | 37 | 3 | 23 | 25 | 12 | 32 | 2 | 28 | 7 | 13 | 8 | 37 | | | | | |
| 26 | M | 18 | 19 | 13 | 4 | 38 | 14 | 23 | 23 | 24 | 28 | 1 | 28 | 10 | 51 | 8 | 39 | | | | | |
| 27 | Tu | 18 | 23 | 10 | 5 | 39 | 24 | 23 | 20 | 6 | 8 | 16 | 0 | 26 | 14 | 2 | 8 | 41 | | | | |
| 28 | W | 18 | 27 | 7 | 6 | 40 | 34 | 23 | 18 | 18 | 3 | 0 | S | 38 | 16 | 37 | 8 | 43 | | | | |
| 29 | Th | 18 | 31 | 4 | 7 | 41 | 44 | 23 | 14 | 29 | 51 | 1 | 39 | 18 | 31 | 8 | 45 | | | | | |
| 30 | F | 18 | 35 | 1 | 8 | 42 | 54 | 23 | 10 | 11 | 46 | 2 | 37 | 19 | 38 | 8 | 47 | | | | | |
| 31 | S | 18 | 38 | 58 | 9 | 44 | 5 | 23 | 6 | 23 | 50 | 3 | 28 | 19 | 51 | 8 | 49 | | | | | |

DECEMBER XXXI DAYS.

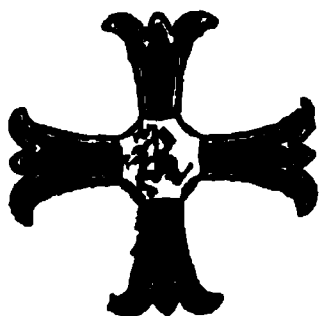
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|--------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 51 | 3 N 13 | 1 S 40 | 24 S 46 | 2 N 36 | 15 S 5 | 10 ^m 49 |
| 4 | 1 53 | 2 38 | 1 45 | 24 28 | 2 26 | 15 51 | 10 39 |
| 7 | 1 55 | 2 1 | 1 48 | 24 9 | 2 9 | 16 52 | 10 30 |
| 10 | 1 57 | 1 26 | 1 51 | 23 37 | 1 49 | 18 1 | 10 20 |
| 13 | 1 58 | 0 52 | 1 53 | 23 5 | 1 27 | 19 12 | 10 11 |
| 16 | 2 0 | 0 18 | 1 54 | 22 20 | 1 4 | 20 20 | 10 1 |
| 19 | 2 2 | 0 S 16 | 1 55 | 21 38 | 0 41 | 21 23 | 9 52 |
| 22 | 2 4 | 0 48 | 1 55 | 20 44 | 0 18 | 22 19 | 9 42 |
| 25 | 2 6 | 1 20 | 1 54 | 19 48 | 0 S 4 | 23 6 | 9 33 |
| 28 | 2 8 | 1 50 | 1 53 | 18 42 | 0 25 | 23 44 | 9 23 |
| 31 | 2 10 | 2 18 | 1 51 | 17 37 | 0 45 | 24 12 | 9 14 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|--------------------|-------------------|--------------------|-------------------|--------------------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 26 ^m 33 | 9 ^h 28 | 26 ^m 12 | 9 ^h 42 | 19 ^m 19 | ☉ ☐ ♈ | | | ♈ | | Δ | | ♈ |
| 2 | 26 40 | 9 34 | 26 44 | 10 56 | 19 54 | ♈ * ♈ | | | | | | | |
| 3 | 26 47 | 9 40 | 27 15 | 12 10 | 20 40 | ♀ * ♈ | ♈ | | | | | | |
| 4 | 26 54 | 9 46 | 27 47 | 13 24 | 21 38 | | | | | | ☐ | | |
| 5 | 27 1 | 9 52 | 28 18 | 14 38 | 22 38 | | | Δ | | Δ | | ♈ | |
| 6 | 27 8 | 9 58 | 28 49 | 15 52 | 23 39 | | | | Δ | | | | Δ |
| 7 | 27 14 | 10 4 | 29 20 | 17 6 | 24 42 | | | ☐ | | | * | | |
| 8 | 27 21 | 10 11 | 29 51 | 18 20 | 25 49 | | Δ | | | | | | |
| 9 | 27 28 | 10 18 | 0 ^h 21 | 19 34 | 27 1 | ♈ ☉ ♈ | | | ☐ | | | | ☐ |
| 10 | 27 35 | 10 25 | 0 52 | 20 48 | 28 17 | | ☐ | * | | ♈ | | | |
| 11 | 27 42 | 10 32 | 1 22 | 22 2 | 29 34 | | | | * | | ☉ | Δ | * |
| 12 | 27 49 | 10 39 | 1 53 | 23 16 | 0 ^h 53 | | | | | | | | |
| 13 | 27 56 | 10 46 | 2 23 | 24 29 | 2 13 | ♈ * ♈ | * | | ☉ | | | ☐ | |
| 14 | 28 3 | 10 54 | 2 53 | 25 43 | 3 35 | | | ☉ | | Δ | | | |
| 15 | 28 10 | 11 2 | 3 23 | 26 56 | 4 58 | | | ☉ | | | | * | |
| 16 | 28 16 | 11 10 | 3 53 | 28 10 | 6 22 | | ☉ | | | | ☐ | * | ☉ |
| 17 | 28 23 | 11 18 | 4 22 | 29 23 | 7 47 | | | * | | | * | ☐ | |
| 18 | 28 30 | 11 26 | 4 52 | 0 ^m 7 | 9 13 | | | | * | | | | |
| 19 | 28 36 | 11 34 | 5 21 | 1 51 | 10 39 | | | | * | | | Δ | ☉ |
| 20 | 28 43 | 11 42 | 5 50 | 3 4 | 12 6 | ♈ ☐ ♈ | | ☐ | | | | Δ | ☉ |
| 21 | 28 49 | 11 51 | 6 19 | 4 18 | 13 34 | | | | | | | | |
| 22 | 28 55 | 12 0 | 6 47 | 5 31 | 15 2 | | * | Δ | ☐ | | ☉ | | ☐ |
| 23 | 29 2 | 12 9 | 7 16 | 6 45 | 16 31 | ♀ Δ ♈ | | | | Δ | | | |
| 24 | 29 8 | 12 18 | 7 45 | 7 58 | 18 0 | ♀ ☐ ♈ | ☐ | | | Δ | | | |
| 25 | 29 14 | 12 27 | 8 13 | 9 12 | 19 29 | | | | | | | ♈ | * |
| 26 | 29 21 | 12 36 | 8 41 | 10 25 | 20 59 | | | | | | | | Δ |
| 27 | 29 27 | 12 46 | 9 8 | 11 38 | 22 30 | | Δ | ♈ | | | | ☐ | |
| 28 | 29 33 | 12 56 | 9 36 | 12 51 | 24 1 | | | | | * | | | |
| 29 | 29 40 | 13 5 | 10 3 | 14 5 | 25 32 | | | | ♈ | | | | |
| 30 | 29 46 | 13 15 | 10 30 | 15 18 | 27 4 | ☉ * ♈ | | | | ☐ | Δ | Δ | |
| 31 | 29 52 | 13 25 | 10 47 | 16 31 | 28 36 | | | | | | | | ♈ |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1809.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

(Alm.) 939 e. 160

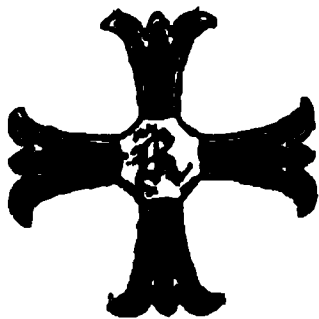
RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE

PLANETS' PLACES

For 1809.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 N 27 | 14 8 2 | 1 N 56 | 18 8 17 | 1 8 11 | 7 8 33 |
| 4 | 16 | 15 | 0 27 | 14 4 | 1 56 | 18 21 | 1 11 | 7 20 |
| 7 | 16 | 16 | 0 27 | 14 6 | 1 56 | 18 24 | 1 10 | 7 8 |
| 10 | 16 | 16 | 0 27 | 14 8 | 1 56 | 18 27 | 1 10 | 7 53 |
| 13 | 16 | 17 | 0 27 | 14 9 | 1 57 | 18 30 | 1 9 | 7 41 |
| 16 | 16 | 17 | 0 27 | 14 11 | 1 57 | 18 32 | 1 9 | 6 21 |
| 19 | 16 | 17 | 0 27 | 14 12 | 1 57 | 18 35 | 1 9 | 6 13 |
| 22 | 16 | 18 | 0 27 | 14 13 | 1 57 | 18 38 | 1 9 | 5 59 |
| 25 | 16 | 18 | 0 27 | 14 14 | 1 58 | 18 40 | 1 8 | 5 44 |
| 28 | 16 | 18 | 0 27 | 14 15 | 1 58 | 18 42 | 1 8 | 5 30 |
| 31 | 16 | 18 | 0 27 | 14 16 | 1 58 | 18 45 | 1 8 | 5 14 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 18 42 54 | 10 W 45 | 14 23 E | 2 6 E | 4 4 S | 11 19 N | 9 8 m 51 |
| 2 | M | 18 46 51 | 11 46 | 24 22 | 56 18 | 31 4 | 42 17 | 32 8 53 |
| 3 | Tu | 18 50 47 | 12 47 | 34 22 | 51 12 | 9 5 | 0 15 | 8 8 55 |
| 4 | W | 18 54 44 | 13 48 | 43 22 | 45 14 | 0 5 | 8 11 | 49 8 56 |
| 5 | Th | 18 58 40 | 14 49 | 53 22 | 38 27 | 2 4 | 50 7 | 58 8 58 |
| 6 | F | 19 2 37 | 15 51 | 3 22 | 31 10 | W 16 | 4 22 | 8 41 9 0 |
| 7 | S | 19 6 33 | 16 52 | 13 22 | 24 23 | 41 3 | 39 0 | 8 51 9 2 |
| 8 | S | 19 10 30 | 17 53 | 22 22 | 16 7 | 18 2 | 43 5 | 24 9 5 |
| 9 | M | 19 14 27 | 18 54 | 32 22 | 8 21 | 8 1 | 37 9 | 45 9 7 |
| 10 | Tu | 19 18 23 | 19 55 | 42 21 | 59 5 | m 11 | 0 24 | 18 38 9 9 |
| 11 | W | 19 22 20 | 20 56 | 52 21 | 50 19 | 27 0 | N 52 | 16 46 9 11 |
| 12 | Th | 19 26 16 | 21 58 | 1 21 | 40 3 | f 54 | 2 5 | 18 54 9 13 |
| 13 | F | 19 30 13 | 22 59 | 10 21 | 30 18 | 29 8 | 11 19 | 48 9 15 |
| 14 | S | 19 34 9 | 24 0 | 19 21 | 20 3 | W 7 | 4 4 | 19 22 9 17 |
| 15 | S | 19 38 6 | 25 1 | 28 21 | 9 17 | 41 4 | 41 17 | 39 9 19 |
| 16 | M | 19 42 3 | 26 2 | 36 20 | 58 2 | m 3 | 4 59 | 14 52 9 20 |
| 17 | Tu | 19 45 59 | 27 3 | 43 20 | 46 16 | 7 4 | 59 11 | 16 9 21 |
| 18 | W | 19 49 56 | 28 4 | 50 20 | 34 29 | 48 4 | 41 7 | 10 9 23 |
| 19 | Th | 19 53 52 | 29 5 | 55 20 | 22 18 | x 4 | 4 9 | 2 50 9 24 |
| 20 | F | 19 57 49 | 0 m 7 | 0 20 | 9 25 | 56 3 | 24 1 | N 30 9 25 |
| 21 | S | 20 1 45 | 1 8 | 4 19 | 56 8 | r 25 | 2 31 | 5 40 9 26 |
| 22 | S | 20 5 42 | 2 9 | 6 19 | 42 20 | 35 1 | 32 9 | 28 9 27 |
| 23 | M | 20 9 39 | 3 10 | 8 19 | 28 28 | 33 0 | 30 12 | 50 9 28 |
| 24 | Tu | 20 13 35 | 4 11 | 8 19 | 14 14 | 22 0 | 8 33 | 15 39 9 29 |
| 25 | W | 20 17 32 | 5 12 | 7 18 | 59 26 | 9 1 | 34 17 | 48 9 30 |
| 26 | Th | 20 21 28 | 6 13 | 4 18 | 44 8 | 0 2 | 31 | 11 9 31 |
| 27 | F | 20 25 25 | 7 14 | 1 18 | 29 10 | 58 3 | 29 | 14 9 32 |
| 28 | S | 20 29 21 | 8 14 | 56 18 | 10 25 | 9 4 | 5 | 12 9 33 |
| 29 | S | 20 33 18 | 9 15 | 50 17 | 57 14 | 34 4 | 26 | 5 9 34 |
| 30 | M | 20 37 14 | 10 16 | 43 17 | 41 27 | 16 4 | 55 | 14 9 35 |
| 31 | Tu | 20 41 11 | 11 17 | 34 17 | 24 10 | Q 13 | 5 0 | 13 9 36 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 2 N 10 | 2 S 31 | 1 S 49 | 17 S 16 | 0 S 51 | 24 S 19 | 9 m 9 |
| 4 | 2 12 | 3 0 | 1 45 | 16 3 | 1 8 | 24 31 | 8 59 |
| 7 | 2 14 | 3 28 | 1 41 | 14 47 | 1 24 | 24 31 | 8 50 |
| 10 | 2 16 | 3 54 | 1 35 | 13 26 | 1 38 | 24 19 | 8 41 |
| 13 | 2 18 | 4 20 | 1 29 | 12 5 | 1 49 | 23 54 | 8 31 |
| 16 | 2 20 | 4 44 | 1 21 | 10 39 | 1 57 | 23 15 | 8 22 |
| 19 | 2 22 | 5 8 | 1 15 | 9 12 | 2 3 | 22 22 | 8 12 |
| 22 | 2 24 | 5 29 | 1 5 | 7 42 | 2 5 | 21 15 | 8 3 |
| 25 | 2 27 | 5 51 | 0 57 | 6 11 | 2 3 | 19 54 | 7 53 |
| 28 | 2 29 | 6 10 | 0 46 | 4 38 | 1 57 | 18 20 | 7 44 |
| 31 | 2 31 | 6 29 | 0 35 | 3 5 | 1 46 | 16 31 | 7 34 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual | Lunar Aspects. | | | | | | |
|--------|---------|---------|---------|---------|--------|--------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ | |
| | ° , | ° , | ° , | ° , | ° , | | | | | | | | |
| 1 | 29 m 58 | 13 x 35 | 11 = 24 | 17 = 44 | 0 v 8 | | ♂ | Δ | | | □ | | |
| 2 | 0 f 4 | 13 45 | 11 50 | 18 57 | 1 41 | ☉ □ ♂ | | | | Δ | | | |
| 3 | 0 10 | 13 56 | 12 16 | 20 10 | 3 14 | | | □ | Δ | | | | |
| 4 | 0 16 | 14 6 | 12 42 | 21 22 | 4 48 | ☉ * ♄ | | | | | * | | |
| 5 | 0 22 | 14 17 | 13 8 | 22 35 | 6 22 | | | | □ | | | ♂ | |
| 6 | 0 28 | 14 27 | 13 34 | 23 48 | 7 56 | | Δ | * | | ♂ | | | Δ |
| 7 | 0 33 | 14 38 | 14 0 | 25 0 | 9 31 | ♀ * ♄ | | | | | | | |
| 8 | 0 39 | 14 49 | 14 25 | 26 13 | 11 6 | | | | * | | | | □ |
| 9 | 0 45 | 15 0 | 14 49 | 27 25 | 12 41 | | □ | ♂ | | | ♂ | Δ | |
| 10 | 0 50 | 15 11 | 15 14 | 28 38 | 14 17 | ♀ □ ♂ | | ♂ | | | | | |
| 11 | 0 55 | 15 22 | 15 38 | 29 50 | 15 53 | ♀ * ♄ | * | | | Δ | | | * |
| 12 | 1 0 | 15 33 | 16 3 | 1 x 2 | 17 30 | ♀ □ ♄ | | | ♂ | | | □ | |
| 13 | 1 5 | 15 45 | 16 27 | 2 14 | 19 8 | | | | | □ | * | * | |
| 14 | 1 11 | 15 56 | 16 50 | 3 26 | 20 46 | | | * | | | | * | |
| 15 | 1 16 | 16 8 | 17 13 | 4 38 | 22 25 | | | | | * | □ | | ♂ |
| 16 | 1 21 | 16 20 | 17 35 | 5 50 | 24 4 | | ♂ | □ | * | | | | |
| 17 | 1 26 | 16 32 | 17 58 | 7 2 | 25 43 | | | | | | Δ | | |
| 18 | 1 31 | 16 44 | 18 21 | 8 14 | 27 23 | | | | □ | | | | |
| 19 | 1 36 | 16 56 | 18 43 | 9 25 | 29 4 | ☉ ♂ ♀ | | Δ | | ♂ | | ♂ | |
| 20 | 1 41 | 17 8 | 19 4 | 10 37 | 0 = 45 | ♀ Δ ♄ | * | | Δ | | | | * |
| 21 | 1 46 | 17 20 | 19 24 | 11 48 | 2 27 | ♀ * ♄ | | | | | | | |
| 22 | 1 50 | 17 32 | 19 45 | 13 0 | 4 10 | ☉ * ♄ | | | | | ♂ | | |
| 23 | 1 55 | 17 44 | 20 5 | 14 11 | 5 53 | | □ | ♂ | | | | | □ |
| 24 | 1 59 | 17 56 | 20 26 | 15 22 | 7 37 | | | | | * | | * | |
| 25 | 2 8 | 18 9 | 20 46 | 16 33 | 9 21 | ♀ □ ♄ | | | | | | | |
| 26 | 2 8 | 18 21 | 21 5 | 17 44 | 11 6 | | Δ | | ♂ | | | | Δ |
| 27 | 2 12 | 18 34 | 21 23 | 18 54 | 12 51 | ♀ ♂ ♄ | | | | Δ | Δ | □ | |
| 28 | 2 17 | 18 47 | 21 42 | 20 5 | 14 37 | | | | | | | | |
| 29 | 2 21 | 19 0 | 22 0 | 21 15 | 16 23 | ☉ □ ♄ | | Δ | | □ | | | |
| 30 | 2 25 | 19 13 | 22 19 | 22 26 | 18 9 | | | | Δ | | □ | Δ | |
| 31 | 2 29 | 19 26 | 22 37 | 23 36 | 19 55 | | ♂ | □ | | | | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 28 | 14 S 16 | 1 N 59 | 18 S 45 | 1 S 7 | 5 S 8 |
| 4 | 16 | 15 | 0 28 | 14 17 | 1 59 | 18 46 | 1 7 | 5 52 |
| 7 | 16 | 14 | 0 28 | 14 17 | 2 0 | 18 48 | 1 7 | 4 36 |
| 10 | 16 | 14 | 0 28 | 14 17 | 2 0 | 18 50 | 1 7 | 4 20 |
| 13 | 16 | 13 | 0 28 | 14 17 | 2 1 | 18 51 | 1 6 | 4 4 |
| 16 | 16 | 12 | 0 28 | 14 17 | 2 1 | 18 52 | 1 6 | 3 47 |
| 19 | 16 | 11 | 0 28 | 14 16 | 2 2 | 18 53 | 1 6 | 3 30 |
| 22 | 16 | 11 | 0 28 | 14 16 | 2 2 | 18 54 | 1 6 | 3 13 |
| 25 | 16 | 10 | 0 28 | 14 15 | 2 3 | 18 54 | 1 6 | 2 57 |
| 28 | 16 | 10 | 0 28 | 14 15 | 2 3 | 18 54 | 1 6 | 2 41 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|-----------------------|--------------|--------------------|-----------|--------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 20 45 7 | 12 ^m 18 25 | 17 S 7 | 23 Ω 26 | 4 S 48 | 9 N 11 | 9 ^m 36 |
| 2 | Th | 20 49 4 | 13 19 14 | 16 50 | 6 ^m 52 | 4 21 | 4 57 | 9 37 |
| 3 | F | 20 53 1 | 14 20 3 | 16 33 | 20 29 | 3 38 | 0 26 | 9 37 |
| 4 | S | 20 56 57 | 15 20 50 | 16 15 | 4 ^m 14 | 2 42 | 4 S 10 | 9 38 |
| 5 | S | 21 0 54 | 16 21 36 | 15 57 | 18 6 | 1 36 | 8 35 | 9 38 |
| 6 | M | 21 4 50 | 17 22 22 | 15 39 | 2 ^m 3 | 0 24 | 12 34 | 9 38 |
| 7 | Tu | 21 8 47 | 18 23 6 | 15 20 | 16 5 | 0 N 50 | 15 52 | 9 39 |
| 8 | W | 21 12 43 | 19 23 49 | 15 1 | 0 ^m 11 | 2 2 | 18 13 | 9 39 |
| 9 | Th | 21 16 40 | 20 24 31 | 14 42 | 14 20 | 3 6 | 19 27 | 9 39 |
| 10 | F | 21 20 36 | 21 25 12 | 14 23 | 28 31 | 3 59 | 19 28 | 9 40 |
| 11 | S | 21 24 33 | 22 25 52 | 14 3 | 12 ^m 41 | 4 37 | 18 16 | 9 40 |
| 12 | S | 21 28 30 | 23 26 30 | 13 43 | 26 46 | 4 58 | 15 57 | 9 40 |
| 13 | M | 21 32 26 | 24 27 7 | 13 23 | 10 ^m 43 | 5 1 | 12 44 | 9 40 |
| 14 | Tu | 21 36 23 | 25 27 43 | 13 3 | 24 26 | 4 46 | 8 53 | 9 ^m 40 |
| 15 | W | 21 40 19 | 26 28 17 | 12 42 | 7 ^m 52 | 4 16 | 4 40 | 9 40 |
| 16 | Th | 21 44 16 | 27 28 50 | 12 22 | 20 58 | 3 33 | 0 20 | 9 39 |
| 17 | F | 21 48 12 | 28 29 21 | 12 1 | 3 ^m 44 | 2 39 | 3 N 55 | 9 39 |
| 18 | S | 21 52 9 | 29 29 50 | 11 40 | 16 11 | 1 40 | 7 54 | 9 39 |
| 19 | S | 21 56 5 | 0 ^m 30 17 | 11 18 | 28 21 | 0 36 | 11 28 | 9 39 |
| 20 | M | 22 0 2 | 1 30 42 | 10 57 | 10 ^m 19 | 0 S 28 | 14 29 | 9 38 |
| 21 | Tu | 22 3 59 | 2 31 6 | 10 35 | 22 9 | 1 30 | 16 53 | 9 38 |
| 22 | W | 22 7 55 | 3 31 27 | 10 13 | 3 ^m 57 | 2 28 | 18 32 | 9 37 |
| 23 | Th | 22 11 52 | 4 31 46 | 9 52 | 15 49 | 3 20 | 19 24 | 9 37 |
| 24 | F | 22 15 48 | 5 32 3 | 9 29 | 27 48 | 4 4 | 19 23 | 9 36 |
| 25 | S | 22 19 45 | 6 32 19 | 9 7 | 10 ^m 2 | 4 37 | 18 29 | 9 35 |
| 26 | S | 22 23 41 | 7 32 32 | 8 45 | 22 32 | 4 59 | 16 40 | 9 35 |
| 27 | M | 22 27 38 | 8 32 43 | 8 22 | 5 ^m 22 | 5 5 | 14 0 | 9 34 |
| 28 | Tu | 22 31 34 | 9 32 52 | 8 0 | 18 33 | 4 57 | 10 35 | 9 33 |

1809.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

6

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 2 N 31 | 6 S 35 | 0 S 33 | 2 S 35 | 1 S 41 | 15 S 52 | 7 m 30 |
| 4 | 2 33 | 6 50 | 0 21 | 1 2 | 1 22 | 18 48 | 7 20 |
| 7 | 2 35 | 7 4 | 0 9 | 0 N 33 | 0 57 | 11 34 | 7 11 |
| 10 | 2 37 | 7 16 | 0 N 4 | 2 6 | 0 25 | 9 15 | 7 1 |
| 13 | 2 39 | 7 28 | 0 18 | 3 41 | 0 N 13 | 6 58 | 6 52 |
| 16 | 2 41 | 7 36 | 0 33 | 5 13 | 0 56 | 4 51 | 6 42 |
| 19 | 2 43 | 7 44 | 0 46 | 6 46 | 1 42 | 3 4 | 6 33 |
| 22 | 2 45 | 7 49 | 1 2 | 8 15 | 2 27 | 1 48 | 6 23 |
| 25 | 2 46 | 7 53 | 1 17 | 9 45 | 3 5 | 1 12 | 6 14 |
| 28 | 2 46 | 7 54 | 1 32 | 11 10 | 3 32 | 1 20 | 6 4 |

| D
M | h | z | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 2 33 | 19 39 | 22 55 | 24 46 | 21 m 42 | ♀ Δ ♂ | | | | * | | ♂ |
| 2 | 2 37 | 19 52 | 23 11 | 25 56 | 23 28 | | | * | □ | | | |
| 3 | 2 41 | 20 5 | 23 26 | 27 5 | 25 14 | | | | | ♂ | | |
| 4 | 2 44 | 20 18 | 23 41 | 28 15 | 27 1 | | | | * | | ♂ | |
| 5 | 2 48 | 20 31 | 23 56 | 29 24 | 28 47 | | Δ | | | | ♂ | |
| 6 | 2 52 | 20 44 | 24 11 | 0 34 | 0 31 | | | | | | | Δ |
| 7 | 2 55 | 20 58 | 24 26 | 1 43 | 2 14 | ♀ □ h | □ | ♂ | | Δ | | |
| 8 | 2 58 | 21 11 | 24 40 | 2 52 | 3 56 | ♀ Δ h | | | ♂ | | Δ | □ |
| 9 | 3 1 | 21 25 | 24 53 | 4 1 | 5 36 | | * | | | □ | | |
| 10 | 3 4 | 21 38 | 25 5 | 5 9 | 7 12 | | | | | | * | |
| 11 | 3 7 | 21 52 | 25 17 | 6 18 | 8 46 | | | * | | | | * |
| 12 | 3 10 | 22 6 | 25 29 | 7 27 | 10 17 | ♀ Δ h | | | * | * | □ | |
| 13 | 3 13 | 22 20 | 25 40 | 8 35 | 11 44 | | | □ | | | * | |
| 14 | 3 16 | 22 33 | 25 51 | 9 43 | 13 6 | | ♂ | | | | Δ | |
| 15 | 3 18 | 22 47 | 26 1 | 10 51 | 14 22 | ☉ Δ ♂ | Δ | Δ | □ | | | |
| 16 | 3 21 | 23 1 | 26 10 | 12 8 | 15 32 | | | | | ♂ | | ♂ |
| 17 | 3 23 | 23 15 | 26 19 | 13 6 | 16 35 | | | | Δ | | | |
| 18 | 3 26 | 23 29 | 26 27 | 14 14 | 17 30 | | | | | | ♂ | |
| 19 | 3 28 | 23 43 | 26 35 | 15 21 | 18 17 | | * | | | | ♂ | |
| 20 | 3 30 | 23 57 | 26 42 | 16 27 | 18 56 | | | ♂ | | | | |
| 21 | 3 32 | 24 11 | 26 49 | 17 33 | 19 26 | | | | | * | | * |
| 22 | 3 34 | 24 25 | 26 55 | 18 39 | 19 46 | ☉ □ h | □ | | ♂ | | | |
| 23 | 3 36 | 24 39 | 27 0 | 19 45 | 19 56 | | | | | | * | □ |
| 24 | 3 38 | 24 53 | 27 4 | 20 51 | 19 57 | | | | | □ | Δ | |
| 25 | 3 40 | 25 7 | 27 7 | 21 57 | 19 48 | | Δ | Δ | | | | |
| 26 | 3 41 | 25 21 | 27 9 | 23 2 | 19 30 | | | | | Δ | □ | Δ |
| 27 | 3 42 | 25 35 | 27 11 | 24 7 | 19 3 | | | □ | Δ | | | |
| 28 | 3 43 | 25 49 | 27 13 | 25 11 | 18 26 | ☉ Δ h | | | | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 10 | 0 N 28 | 14 S 14 | 2 N 4 | 18 S 54 | 1 S 5 | 28 34 |
| 4 | 16 | 9 | 0 28 | 14 13 | 2 4 | 18 54 | 1 5 | 2 17 |
| 7 | 16 | 8 | 0 28 | 14 12 | 2 5 | 18 54 | 1 5 | 2 4 |
| 10 | 16 | 8 | 0 28 | 14 11 | 2 5 | 18 54 | 1 5 | 1 40 |
| 13 | 16 | 7 | 0 28 | 14 9 | 2 5 | 18 58 | 1 5 | 1 20 |
| 16 | 16 | 6 | 0 28 | 14 8 | 2 5 | 18 59 | 1 5 | 1 8 |
| 19 | 16 | 5 | 0 28 | 14 6 | 2 6 | 18 52 | 1 5 | 0 50 |
| 22 | 16 | 4 | 0 28 | 14 5 | 2 6 | 18 51 | 1 5 | 0 20 |
| 25 | 16 | 3 | 0 28 | 14 2 | 2 7 | 18 50 | 1 5 | 0 10 |
| 28 | 16 | 3 | 0 28 | 14 1 | 2 7 | 18 49 | 1 5 | 0 N 1 |
| 31 | 16 | 2 | 0 28 | 13 59 | 2 7 | 18 48 | 1 5 | 0 10 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | | | ☽
Declin | | | ♂
Long. | | | ♀
Lat. | | | ♂
Declin | | | ♂
Long. | | |
|--------|--------|-------------------|------------|------|----|-------------|------|----|------------|----|------|-----------|------|----|-------------|----|----|------------|----|----|
| | | H. M. S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | W | 22 35 31 | 10 | 32 | 59 | 78 | 37 | 2 | 4 | 48 | 31 | 6 | N | 31 | 9 | 33 | 9 | 33 | 9 | |
| 2 | Th | 22 39 26 | 11 | 33 | 4 | 7 | 14 | 15 | 53 | 3 | 40 | 2 | 3 | 9 | 33 | 9 | 33 | 9 | 33 | |
| 3 | F | 22 43 24 | 12 | 33 | 7 | 6 | 51 | 29 | 56 | 2 | 53 | 28 | 37 | 9 | 30 | 9 | 30 | 9 | 30 | |
| 4 | S | 22 47 21 | 13 | 33 | 9 | 6 | 28 | 14 | 8 | 1 | 46 | 7 | 12 | 9 | 24 | 9 | 24 | 9 | 24 | |
| 5 | S | 22 51 17 | 14 | 33 | 9 | 6 | 5 | 28 | 25 | 0 | 31 | 11 | 24 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 6 | M | 22 55 14 | 15 | 33 | 7 | 5 | 42 | 12 | m 43 | 0 | N 46 | 14 | 56 | 9 | 2 | 9 | 2 | 9 | 2 | |
| 7 | Tu | 22 59 10 | 16 | 33 | 4 | 5 | 19 | 26 | 58 | 2 | 0 | 17 | 33 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 8 | W | 23 3 7 | 17 | 32 | 59 | 4 | 55 | 11 | f 9 | 3 | 7 | 19 | 3 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 9 | Th | 23 7 3 | 18 | 32 | 52 | 4 | 32 | 25 | 14 | 4 | 1 | 19 | 22 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 10 | F | 23 11 0 | 19 | 32 | 44 | 4 | 9 | 9 | w 12 | 4 | 41 | 18 | 29 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 11 | S | 23 14 56 | 20 | 32 | 34 | 3 | 45 | 28 | 1 | 5 | 4 | 16 | 30 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 12 | S | 23 18 53 | 21 | 32 | 22 | 3 | 21 | 6 | m 41 | 5 | 9 | 13 | 38 | 9 | 20 | 9 | 20 | 9 | 20 | |
| 13 | M | 23 22 50 | 22 | 32 | 9 | 2 | 58 | 20 | 10 | 4 | 57 | 10 | 5 | 9 | 10 | 9 | 10 | 9 | 10 | |
| 14 | Tu | 23 26 46 | 23 | 31 | 54 | 2 | 34 | 3 | 26 | 4 | 29 | 6 | 4 | 9 | 10 | 9 | 10 | 9 | 10 | |
| 15 | W | 23 30 43 | 24 | 31 | 37 | 2 | 11 | 16 | 29 | 3 | 48 | 1 | 51 | 9 | 10 | 9 | 10 | 9 | 10 | |
| 16 | Th | 23 34 39 | 25 | 31 | 18 | 1 | 47 | 29 | 16 | 2 | 55 | 2 | N 28 | 9 | 14 | 9 | 14 | 9 | 14 | |
| 17 | F | 23 38 36 | 26 | 30 | 57 | 1 | 23 | 11 | r 49 | 1 | 55 | 6 | 27 | 9 | 14 | 9 | 14 | 9 | 14 | |
| 18 | S | 23 42 32 | 27 | 30 | 38 | 0 | 59 | 24 | 7 | 0 | 51 | 10 | 9 | 9 | 10 | 9 | 10 | 9 | 10 | |
| 19 | S | 23 46 29 | 28 | 30 | 8 | 0 | 36 | 6 | 13 | 0 | 8 | 15 | 22 | 9 | 4 | 9 | 4 | 9 | 4 | |
| 20 | M | 23 50 25 | 29 | 29 | 40 | 0 | 12 | 18 | 9 | 1 | 20 | 15 | 55 | 9 | 4 | 9 | 4 | 9 | 4 | |
| 21 | Tu | 23 54 22 | 0 | r 29 | 10 | 0 | N 12 | 29 | 59 | 2 | 20 | 17 | 53 | 9 | 4 | 9 | 4 | 9 | 4 | |
| 22 | W | 23 58 19 | 1 | 28 | 38 | 0 | 35 | 11 | 47 | 3 | 15 | 19 | 0 | 9 | 4 | 9 | 4 | 9 | 4 | |
| 23 | Th | 0 2 15 | 2 | 28 | 4 | 0 | 59 | 23 | 38 | 4 | 1 | 19 | 18 | 9 | 4 | 9 | 4 | 9 | 4 | |
| 24 | F | 0 6 12 | 3 | 27 | 27 | 1 | 28 | 5 | 38 | 4 | 38 | 18 | 43 | 8 | 50 | 8 | 50 | 8 | 50 | |
| 25 | S | 0 10 8 | 4 | 26 | 47 | 1 | 46 | 17 | 50 | 5 | 2 | 17 | 17 | 8 | 50 | 8 | 50 | 8 | 50 | |
| 26 | S | 0 14 5 | 5 | 25 | 6 | 2 | 10 | 0 | 19 | 4 | 15 | 0 | 8 | 8 | 50 | 8 | 50 | 8 | 50 | |
| 27 | M | 0 18 1 | 6 | 25 | 22 | 2 | 33 | 18 | 10 | 0 | 11 | 56 | 8 | 50 | 8 | 50 | 8 | 50 | 8 | 50 |
| 28 | Tu | 0 21 58 | 7 | 24 | 35 | 2 | 57 | 26 | 25 | 9 | 8 | 11 | 8 | 50 | 8 | 50 | 8 | 50 | 8 | 50 |
| 29 | W | 0 25 54 | 8 | 23 | 47 | 3 | 20 | 10 | w 4 | 2 | 3 | 55 | 8 | 45 | 8 | 45 | 8 | 45 | 8 | 45 |
| 30 | Th | 0 29 51 | 9 | 22 | 56 | 3 | 43 | 24 | 6 | 9 | 0 | 8 42 | 8 | 47 | 8 | 47 | 8 | 47 | 8 | 47 |
| 31 | F | 0 33 48 | 10 | 22 | 4 | 4 | 7 | 8 | 28 | 2 | 5 | 23 | 8 | 44 | 8 | 44 | 8 | 44 | 8 | 44 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 2 N 47 | 7 S 54 | 1 N 37 | 11 N 39 | 3 N 37 | 1 S 32 | 6 m 1 |
| 4 | 2 48 | 7 52 | 1 53 | 13 1 | 3 40 | 2 31 | 5 51 |
| 7 | 2 48 | 7 49 | 2 9 | 14 23 | 3 26 | 3 53 | 5 42 |
| 10 | 2 49 | 7 42 | 2 25 | 15 39 | 2 56 | 5 22 | 5 32 |
| 13 | 2 49 | 7 36 | 2 41 | 16 57 | 2 16 | 6 44 | 5 23 |
| 16 | 2 48 | 7 25 | 2 57 | 18 9 | 1 32 | 7 50 | 5 13 |
| 19 | 2 47 | 7 14 | 3 13 | 19 16 | 0 47 | 8 36 | 5 4 |
| 22 | 2 45 | 7 0 | 3 30 | 20 20 | 0 6 | 9 0 | 4 54 |
| 25 | 2 43 | 6 43 | 3 43 | 21 21 | 0 S 32 | 9 3 | 4 45 |
| 28 | 2 41 | 6 26 | 3 58 | 22 16 | 1 5 | 8 48 | 4 35 |
| 31 | 2 39 | 6 8 | 4 13 | 23 9 | 1 33 | 8 15 | 4 26 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | | |
| 1 | 3 f 44 | 26 x 4 | 27 = 14 | 26 r 15 | 17 x 43 | | | | ☐ | | * | Δ | | |
| 2 | 3 45 | 26 18 | 27 R 14 | 27 18 | 16 R 57 | ♀ ♂ ♂ | ♂ * | | * | ♂ | | | | ♂ |
| 3 | 3 46 | 26 32 | 27 13 | 28 21 | 16 3 | | | | * | ♂ | | | | |
| 4 | 3 47 | 26 47 | 27 11 | 29 24 | 15 2 | | | | | | | | | |
| 5 | 3 48 | 27 1 | 27 9 | 0 s 27 | 14 1 | ☉ ☉ ♀ | | | | | | ♂ | ♂ | |
| 6 | 3 49 | 27 15 | 27 7 | 1 30 | 13 1 | | Δ | ♂ | ♂ | | | | | Δ |
| 7 | 3 50 | 27 30 | 27 4 | 2 33 | 12 3 | | | | ♂ | Δ | | | | |
| 8 | 3 50 | 27 44 | 26 59 | 3 35 | 11 6 | | ☐ | | | | | | | ☐ |
| 9 | 3 51 | 27 59 | 26 54 | 4 36 | 10 11 | | | | | ☐ | * | | | |
| 10 | 3 51 | 28 13 | 26 48 | 5 37 | 9 19 | ♀ Δ ☿ | * | | | | | | Δ | * |
| 11 | 3 51 | 28 28 | 26 41 | 6 38 | 8 32 | | * | | | | | ☐ | | |
| 12 | 3 51 | 28 42 | 26 34 | 7 39 | 7 52 | ♀ * ♀ | | ☐ | * | * | | | ☐ | |
| 13 | 3 R 51 | 28 57 | 26 26 | 8 40 | 7 18 | | | | | | | Δ | | |
| 14 | 3 51 | 29 11 | 26 18 | 9 39 | 6 50 | ♀ ♂ ☿ | | Δ | ☐ | | | * | | ♂ |
| 15 | 3 51 | 29 26 | 26 9 | 10 38 | 6 27 | | | | | | | | | |
| 16 | 3 51 | 29 40 | 25 59 | 11 37 | 6 9 | | ♂ | | Δ | ♂ | | | | |
| 17 | 3 51 | 29 55 | 25 48 | 12 35 | 5 59 | | | | | | | | | |
| 18 | 3 50 | 0 r 9 | 25 35 | 13 33 | 5 D 56 | | | | | | | | ♂ | |
| 19 | 3 50 | 0 24 | 25 21 | 14 31 | 5 59 | | | ♂ | | | | | | * |
| 20 | 3 49 | 0 38 | 25 7 | 15 28 | 6 7 | | | | | | | | ♂ | |
| 21 | 3 48 | 0 53 | 24 52 | 16 24 | 6 20 | ☉ ☉ ♈ | * | | | ♂ | * | | | ☐ |
| 22 | 3 47 | 1 8 | 24 37 | 17 20 | 6 39 | | | | | | | | | |
| 23 | 3 46 | 1 22 | 24 22 | 18 15 | 7 3 | | | | | | ☐ | Δ | | |
| 24 | 3 45 | 1 37 | 24 6 | 19 9 | 7 31 | ☉ Δ ♈ | ☐ | Δ | | | | | | Δ |
| 25 | 3 44 | 1 52 | 23 49 | 20 3 | 8 3 | | | | | | Δ | ☐ | * | |
| 26 | 3 43 | 2 6 | 23 32 | 20 56 | 8 39 | | Δ | | Δ | | | | | |
| 27 | 3 41 | 2 20 | 23 14 | 21 48 | 9 20 | ♀ Δ ☿ | | ☐ | | | | | | |
| 28 | 3 40 | 2 35 | 22 55 | 22 39 | 10 5 | | | | | | | * | ☐ | |
| 29 | 3 39 | 2 49 | 22 36 | 23 30 | 10 53 | | | * | ☐ | | | | | ♂ |
| 30 | 3 38 | 3 3 | 22 16 | 24 20 | 11 44 | | | | | | | | ♂ | Δ |
| 31 | 3 36 | 3 17 | 21 55 | 25 10 | 12 38 | | ♂ | | * | | | | | |

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 1 | 0 N 28 | 13 58 | 2 N 8 | 18 46 | 1 8 | 0 N 24 |
| 4 | 16 | 0 | 0 28 | 13 56 | 2 8 | 18 46 | 1 6 | 0 41 |
| 7 | 16 | 59 | 0 28 | 13 54 | 2 9 | 18 45 | 1 6 | 0 59 |
| 10 | 16 | 58 | 0 28 | 13 51 | 2 9 | 18 43 | 1 6 | 1 16 |
| 13 | 16 | 58 | 0 28 | 13 48 | 2 10 | 18 41 | 1 6 | 1 32 |
| 16 | 16 | 57 | 0 28 | 13 46 | 2 10 | 18 39 | 1 6 | 1 48 |
| 19 | 16 | 56 | 0 28 | 13 44 | 2 10 | 18 36 | 1 6 | 2 6 |
| 22 | 16 | 56 | 0 28 | 13 43 | 2 10 | 18 34 | 1 6 | 2 22 |
| 25 | 16 | 55 | 0 28 | 13 40 | 2 11 | 18 32 | 1 7 | 2 38 |
| 28 | 16 | 54 | 0 28 | 13 38 | 2 11 | 18 30 | 1 7 | 2 54 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 0 37 44 | 11 21 9 | 4 N 30 | 23 4 | 0 8 55 | 9 8 50 | 8 43 |
| 2 | S | 0 41 41 | 12 20 12 | 4 53 | 7 48 | 0 N 28 | 13 43 | 8 41 |
| 3 | M | 0 45 37 | 13 19 14 | 5 16 | 22 32 | 1 46 | 16 44 | 8 38 |
| 4 | Tu | 0 49 34 | 14 18 18 | 5 39 | 7 11 | 2 57 | 18 37 | 8 36 |
| 5 | W | 0 53 30 | 15 17 10 | 6 21 | 21 39 | 3 57 | 19 16 | 8 34 |
| 6 | Th | 0 57 27 | 16 16 7 | 6 24 | 5 58 | 4 42 | 18 39 | 8 31 |
| 7 | F | 1 1 23 | 17 15 1 | 6 47 | 19 51 | 5 8 | 16 55 | 8 29 |
| 8 | S | 1 5 20 | 18 13 53 | 7 9 | 3 33 | 5 16 | 14 16 | 8 27 |
| 9 | S | 1 9 17 | 19 12 44 | 7 32 | 16 57 | 5 7 | 10 53 | 8 24 |
| 10 | M | 1 13 13 | 20 11 33 | 7 54 | 0 6 | 4 42 | 7 2 | 8 22 |
| 11 | Tu | 1 17 10 | 21 10 21 | 8 16 | 13 0 | 4 9 | 2 56 | 8 20 |
| 12 | W | 1 21 6 | 22 9 7 | 8 36 | 25 40 | 3 13 | 1 N 14 | 8 18 |
| 13 | Th | 1 25 3 | 23 7 50 | 9 0 | 8 8 | 2 14 | 5 17 | 8 16 |
| 14 | F | 1 28 59 | 24 6 33 | 9 22 | 20 24 | 1 10 | 9 3 | 8 14 |
| 15 | S | 1 32 56 | 25 5 16 | 9 48 | 2 81 | 0 3 | 12 24 | 8 11 |
| 16 | S | 1 36 52 | 26 3 50 | 10 4 | 14 29 | 1 3 | 15 12 | 8 8 |
| 17 | M | 1 40 49 | 27 2 27 | 10 26 | 26 22 | 2 6 | 17 19 | 8 6 |
| 18 | Tu | 1 44 46 | 28 1 10 | 47 8 | 10 | 3 8 | 18 41 | 8 3 |
| 19 | W | 1 48 42 | 28 59 32 | 11 8 | 19 59 | 3 52 | 19 13 | 8 1 |
| 20 | Th | 1 52 39 | 29 58 2 | 11 28 | 1 51 | 4 31 | 16 55 | 7 59 |
| 21 | F | 1 56 35 | 0 56 30 | 11 49 | 13 49 | 5 0 | 17 46 | 7 56 |
| 22 | S | 2 0 31 | 1 54 55 | 12 9 | 26 0 | 5 16 | 15 48 | 7 54 |
| 23 | S | 2 4 28 | 2 53 19 | 12 29 | 8 27 | 5 17 | 13 4 | 7 51 |
| 24 | M | 2 8 24 | 3 51 39 | 12 46 | 21 18 | 5 2 | 9 40 | 7 49 |
| 25 | Tu | 2 12 20 | 4 49 56 | 13 8 | 4 24 | 4 32 | 5 41 | 7 46 |
| 26 | W | 2 16 17 | 5 48 16 | 13 28 | 16 0 | 3 46 | 1 17 | 7 43 |
| 27 | Th | 2 20 13 | 6 46 30 | 13 47 | 2 3 | 2 44 | 3 20 | 7 41 |
| 28 | F | 2 24 9 | 7 44 43 | 14 6 | 16 31 | 1 31 | 7 54 | 7 38 |
| 29 | S | 2 28 5 | 8 42 55 | 14 25 | 1 19 | 0 10 | 12 6 | 7 36 |
| 30 | S | 2 32 1 | 9 41 4 | 14 44 | 16 20 | 1 N 13 | 16 35 | 7 33 |

| APRIL XXX DAYS. | | | | | | | | | | |
|-----------------|--------|---------|--------|---------|----------|---------|--------|---|--|--|
| D
M | Mars. | | Venus. | | Mercury. | | Moon's | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | Node. | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | |
| 1 | 2 N 36 | 6 S 1 | 4 N 16 | 23 N 25 | 1 S 41 | 8 S 0 | 4 m 23 | | | |
| 4 | 2 31 | 5 40 | 4 28 | 24 7 | 2 2 | 7 7 | 4 13 | | | |
| 7 | 2 26 | 5 20 | 4 40 | 24 51 | 2 18 | 5 59 | 4 4 | | | |
| 10 | 2 21 | 5 0 | 4 50 | 25 28 | 2 29 | 4 38 | 3 54 | | | |
| 13 | 2 15 | 4 38 | 5 0 | 25 58 | 2 36 | 3 6 | 3 45 | | | |
| 16 | 2 8 | 4 19 | 5 6 | 26 22 | 2 38 | 1 22 | 3 35 | | | |
| 19 | 2 1 | 4 0 | 5 13 | 26 45 | 2 34 | 0 N 82 | 3 26 | | | |
| 22 | 1 53 | 3 45 | 5 15 | 26 58 | 2 27 | 2 35 | 3 16 | | | |
| 25 | 1 45 | 3 28 | 5 16 | 27 10 | 2 14 | 4 47 | 3 7 | | | |
| 28 | 1 37 | 3 13 | 5 13 | 27 12 | 1 57 | 7 5 | 2 57 | | | |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|--------|-----------|-------|------------|---------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 3 f 34 | 3 r 32 21 | ♈ 34 | 26 8 0 | 13 x 36 | ♈ Δ h | | | | | | ♈ | | |
| 2 | 3 R 32 | 3 46 21 | R 13 | 26 48 14 | 34 | | | ♈ | | | | | | Δ |
| 3 | 3 30 | 4 1 20 | 51 27 | 35 15 37 | | | | | | | | | ♈ | |
| 4 | 3 28 | 4 15 20 | 29 28 | 21 16 44 | | | | | ♈ | Δ | | | | |
| 5 | 3 26 | 4 30 20 | 7 29 | 6 17 58 | | | Δ | | | | | * | | □ |
| 6 | 3 24 | 4 44 19 | 45 29 | 50 19 8 | | | | * | | □ | | | | |
| 7 | 3 21 | 4 59 19 | 23 0 | Π 34 20 15 | | | □ | | | | | □ | Δ | * |
| 8 | 3 19 | 5 13 19 | 0 1 | 16 21 29 | | | | □ | * | * | | | Δ | |
| 9 | 3 16 | 5 28 18 | 37 1 | 57 22 46 | ☉ ♈ ♈ | | ☉ | ♈ | * | | | Δ | | |
| 10 | 3 14 | 5 43 18 | 14 2 | 37 24 5 | | | | | □ | | | | □ | |
| 11 | 3 11 | 5 57 17 | 51 3 | 16 25 26 | ♀ ♈ h | | | Δ | | | | | | |
| 12 | 3 9 | 6 11 17 | 28 3 | 54 26 48 | | | | | | | | | | ♈ |
| 13 | 3 6 | 6 25 17 | 4 4 | 32 28 12 | | | | | Δ | ♈ | | * | | |
| 14 | 3 3 | 6 39 16 | 41 5 | 7 29 38 | | | ♈ | | | | | ♈ | | |
| 15 | 3 0 | 6 53 16 | 18 5 | 40 1 r 6 | | | | ♈ | | | | | | |
| 16 | 2 57 | 7 8 15 | 58 6 | 12 2 37 | ♀ Δ h | | | | | | | | | |
| 17 | 2 54 | 7 22 15 | 34 6 | 43 4 9 | | | | | | | | | | |
| 18 | 2 51 | 7 36 15 | 12 7 | 13 5 42 | ♀ * ♀ | | | | | ♈ | * | | ♈ | * |
| 19 | 2 47 | 7 50 14 | 51 7 | 42 7 17 | ♀ ♂ ♈ | | | | | | | Δ | | |
| 20 | 2 44 | 8 4 14 | 30 8 | 6 8 54 | ♀ * ♈ | | * | | | | | | | |
| 21 | 2 40 | 8 18 14 | 10 8 | 29 10 33 | | | | Δ | | □ | □ | | | □ |
| 22 | 2 37 | 8 32 13 | 50 8 | 52 12 13 | | | □ | | | | | | | |
| 23 | 2 33 | 8 46 13 | 31 9 | 13 13 55 | ♀ ♈ ♈ | | | □ | Δ | Δ | * | * | Δ | |
| 24 | 2 30 | 9 0 13 | 11 9 | 33 15 39 | | | | | | | | | | |
| 25 | 2 26 | 9 13 12 | 52 9 | 53 17 25 | | | Δ | * | □ | | | | □ | |
| 26 | 2 23 | 9 27 12 | 34 10 | 8 19 12 | | | | | | | | | | |
| 27 | 2 19 | 9 41 12 | 16 10 | 21 21 1 | | | | | * | | | | | |
| 28 | 2 16 | 9 54 11 | 59 10 | 32 22 51 | ☉ ♈ ♈ | | | | | | | ♈ | ♈ | ♈ |
| 29 | 2 12 | 10 8 11 | 43 10 | 41 24 43 | | | | ♈ | | | | | | |
| 30 | 2 8 | 10 22 11 | 27 10 | 48 26 38 | | | | ♈ | | | | | | |

MAY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 28 | 18 S 35 | 2 N 12 | 18 S 27 | 1 S 7 | 3 N 10 |
| 4 | 15 | 54 | 0 28 | 18 32 | 2 12 | 18 25 | 1 7 | 3 26 |
| 7 | 15 | 53 | 0 28 | 18 29 | 2 11 | 18 23 | 1 8 | 3 41 |
| 10 | 15 | 52 | 0 28 | 18 27 | 2 11 | 18 20 | 1 8 | 3 57 |
| 13 | 15 | 51 | 0 28 | 18 25 | 2 11 | 18 17 | 1 9 | 4 10 |
| 16 | 15 | 51 | 0 28 | 18 23 | 2 11 | 18 14 | 1 9 | 4 25 |
| 19 | 15 | 50 | 0 28 | 18 21 | 2 11 | 18 12 | 1 9 | 4 39 |
| 22 | 15 | 50 | 0 28 | 18 19 | 2 11 | 18 10 | 1 9 | 4 53 |
| 25 | 15 | 49 | 0 28 | 18 17 | 2 10 | 18 7 | 1 10 | 5 6 |
| 28 | 15 | 49 | 0 28 | 18 15 | 2 10 | 18 4 | 1 10 | 5 19 |
| 31 | 15 | 48 | 0 28 | 18 13 | 2 10 | 18 1 | 1 10 | 5 30 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 2 35 58 | 10 8 39 | 12 15 N | 2 1 7 26 | 2 N 31 | 18 S 0 | 7 m 31 |
| 2 | Tu | 2 39 54 | 11 37 18 | 15 20 | 16 28 | 3 38 | 19 9 | 7 h 29 |
| 3 | W | 2 43 50 | 12 35 23 | 15 38 | 1 w 18 | 4 30 | 18 57 | 7 27 |
| 4 | Th | 2 47 47 | 13 33 26 | 15 55 | 15 49 | 5 3 | 17 31 | 7 24 |
| 5 | F | 2 51 44 | 14 31 28 | 16 13 | 29 57 | 5 17 | 15 1 | 7 22 |
| 6 | S | 2 55 40 | 15 29 28 | 16 30 | 13 m 42 | 5 12 | 11 45 | 7 20 |
| 7 | S | 2 59 37 | 16 27 28 | 16 46 | 27 2 | 4 50 | 7 58 | 7 17 |
| 8 | M | 3 3 33 | 17 25 26 | 17 3 | 10 x 2 | 4 14 | 3 54 | 7 15 |
| 9 | Tu | 3 7 30 | 18 23 22 | 17 19 | 22 42 | 3 26 | 0 N 15 | 7 12 |
| 10 | W | 3 11 26 | 19 21 18 | 17 35 | 5 r 7 | 2 29 | 4 19 | 7 9 |
| 11 | Th | 3 15 23 | 20 19 12 | 17 51 | 17 20 | 1 26 | 8 9 | 7 6 |
| 12 | F | 3 19 19 | 21 17 5 | 18 6 | 29 23 | 0 21 | 11 35 | 7 3 |
| 13 | S | 3 23 16 | 22 14 57 | 18 21 | 11 8 19 | 0 8 45 | 14 32 | 7 1 |
| 14 | S | 3 27 13 | 23 12 47 | 18 36 | 23 11 | 1 48 | 16 50 | 6 58 |
| 15 | M | 3 31 9 | 24 10 36 | 18 50 | 5 n 0 | 2 47 | 18 25 | 6 56 |
| 16 | Tu | 3 35 6 | 25 8 23 | 19 4 | 16 49 | 3 38 | 19 11 | 6 54 |
| 17 | W | 3 39 2 | 26 6 9 | 19 18 | 28 39 | 4 20 | 19 7 | 6 51 |
| 18 | Th | 3 42 59 | 27 3 54 | 19 31 | 10 5 34 | 4 51 | 18 13 | 6 48 |
| 19 | F | 3 46 55 | 28 1 37 | 19 44 | 22 36 | 5 9 | 16 29 | 6 46 |
| 20 | S | 3 50 52 | 28 59 18 | 19 57 | 4 5 48 | 5 14 | 14 0 | 6 44 |
| 21 | S | 3 54 48 | 29 56 57 | 20 10 | 17 14 | 5 4 | 10 51 | 6 42 |
| 22 | M | 3 58 45 | 0 n 54 | 36 20 | 22 29 58 | 4 40 | 7 8 | 6 40 |
| 23 | Tu | 4 2 42 | 1 52 12 | 20 33 | 13 m 2 | 4 0 | 2 58 | 6 37 |
| 24 | W | 4 6 38 | 2 49 47 | 20 45 | 26 30 | 3 6 | 1 8 27 | 6 35 |
| 25 | Th | 4 10 35 | 3 47 21 | 20 56 | 10 2 25 | 2 0 | 5 58 | 6 33 |
| 26 | F | 4 14 31 | 4 44 53 | 21 6 | 24 46 | 0 44 | 10 17 | 6 31 |
| 27 | S | 4 18 28 | 5 42 24 | 21 17 | 9 m 31 | 0 N 37 | 14 6 | 6 28 |
| 28 | S | 4 22 24 | 6 39 54 | 21 27 | 24 35 | 1 56 | 17 3 | 6 26 |
| 29 | M | 4 26 21 | 7 37 23 | 21 36 | 9 f 49 | 3 8 | 18 50 | 6 24 |
| 30 | Tu | 4 30 17 | 8 34 50 | 21 45 | 25 4 | 4 7 | 19 15 | 6 22 |
| 31 | W | 4 34 14 | 9 32 17 | 21 54 | 10 w 9 | 4 48 | 18 17 | 6 20 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 30 | 3 8 4 | 5 N 8 | 27 N 11 | 1 8 35 | 9 N 29 | 2 m 48 |
| 4 | 1 22 | 2 56 | 4 58 | 26 58 | 1 9 | 11 57 | 2 38 |
| 7 | 1 13 | 2 49 | 4 43 | 26 42 | 0 41 | 14 25 | 2 28 |
| 10 | 1 5 | 2 47 | 4 17 | 26 12 | 0 10 | 16 48 | 2 19 |
| 13 | 0 58 | 2 46 | 3 58 | 25 41 | 0 N 21 | 19 8 | 2 9 |
| 16 | 0 50 | 2 48 | 3 25 | 24 56 | 0 52 | 21 4 | 2 0 |
| 19 | 0 43 | 2 52 | 2 53 | 24 6 | 1 19 | 22 44 | 1 50 |
| 22 | 0 36 | 3 0 | 2 18 | 23 6 | 1 41 | 24 3 | 1 41 |
| 25 | 0 29 | 3 10 | 1 33 | 22 5 | 1 58 | 24 57 | 1 31 |
| 28 | 0 22 | 3 24 | 0 51 | 21 4 | 2 8 | 25 28 | 1 22 |
| 31 | 0 15 | 3 39 | 0 7 | 21 59 | 2 10 | 25 38 | 1 12 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----|---|-------|---|-------|---|------------------|----------------|-------|---|----|---|---|---|
| | | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | | ° | ' | ° | ' | ° | | | | | | | | |
| 1 | 2 | ♈ | 4 10 | ♈ | 35 11 | ♈ | 12 10 | ♈ | 53 28 | ♈ | 34 | ♀ | * | ♈ |
| 2 | 2 | ♈ | 0 10 | ♈ | 49 10 | ♈ | 57 10 | ♈ | 56 0 | ♈ | 31 | ♂ | ♂ | ♈ |
| 3 | 1 | ♈ | 56 11 | ♈ | 2 10 | ♈ | 43 10 | ♈ | 57 2 | ♈ | 30 | ♀ | ♂ | ♈ |
| 4 | 1 | ♈ | 52 11 | ♈ | 16 10 | ♈ | 30 10 | ♈ | 55 4 | ♈ | 32 | ♂ | ♂ | ♈ |
| 5 | 1 | ♈ | 48 11 | ♈ | 29 10 | ♈ | 18 10 | ♈ | 50 6 | ♈ | 35 | ♂ | ♂ | ♈ |
| 6 | 1 | ♈ | 44 11 | ♈ | 42 10 | ♈ | 7 10 | ♈ | 42 8 | ♈ | 39 | | | ♈ |
| 7 | 1 | ♈ | 39 11 | ♈ | 55 9 | ♈ | 57 10 | ♈ | 29 10 | ♈ | 45 | | | ♈ |
| 8 | 1 | ♈ | 35 12 | ♈ | 8 9 | ♈ | 48 10 | ♈ | 14 12 | ♈ | 52 | | | ♈ |
| 9 | 1 | ♈ | 31 12 | ♈ | 21 9 | ♈ | 39 9 | ♈ | 57 15 | ♈ | 0 | | | ♈ |
| 10 | 1 | ♈ | 26 12 | ♈ | 34 9 | ♈ | 31 9 | ♈ | 38 17 | ♈ | 9 | | | ♈ |
| 11 | 1 | ♈ | 22 12 | ♈ | 47 9 | ♈ | 24 9 | ♈ | 19 19 | ♈ | 19 | | | ♈ |
| 12 | 1 | ♈ | 18 12 | ♈ | 0 9 | ♈ | 17 8 | ♈ | 56 21 | ♈ | 30 | ☉ | ♈ | ♈ |
| 13 | 1 | ♈ | 13 12 | ♈ | 18 9 | ♈ | 11 8 | ♈ | 40 23 | ♈ | 41 | | | ♈ |
| 14 | 1 | ♈ | 9 12 | ♈ | 26 9 | ♈ | 6 8 | ♈ | 12 25 | ♈ | 52 | | | ♈ |
| 15 | 1 | ♈ | 5 12 | ♈ | 39 9 | ♈ | 2 7 | ♈ | 43 28 | ♈ | 3 | | | ♈ |
| 16 | 1 | ♈ | 0 12 | ♈ | 51 8 | ♈ | 59 7 | ♈ | 13 0 | ♈ | 14 | ♂ | ♈ | ♈ |
| 17 | 0 | ♈ | 56 12 | ♈ | 4 8 | ♈ | 57 6 | ♈ | 42 2 | ♈ | 24 | | | ♈ |
| 18 | 0 | ♈ | 52 12 | ♈ | 17 8 | ♈ | 55 6 | ♈ | 10 4 | ♈ | 33 | | | ♈ |
| 19 | 0 | ♈ | 47 12 | ♈ | 29 8 | ♈ | 54 5 | ♈ | 37 6 | ♈ | 41 | ♂ | ♈ | ♈ |
| 20 | 0 | ♈ | 43 12 | ♈ | 41 8 | ♈ | 54 5 | ♈ | 3 8 | ♈ | 47 | ♂ | ♈ | ♈ |
| 21 | 0 | ♈ | 38 12 | ♈ | 53 8 | ♈ | 54 4 | ♈ | 28 10 | ♈ | 51 | | | ♈ |
| 22 | 0 | ♈ | 34 12 | ♈ | 5 8 | ♈ | 55 3 | ♈ | 52 12 | ♈ | 54 | ☉ | ♈ | ♈ |
| 23 | 0 | ♈ | 29 12 | ♈ | 17 8 | ♈ | 57 3 | ♈ | 15 14 | ♈ | 55 | ♂ | ♈ | ♈ |
| 24 | 0 | ♈ | 25 12 | ♈ | 29 9 | ♈ | 0 2 | ♈ | 36 16 | ♈ | 53 | ☉ | ♈ | ♈ |
| 25 | 0 | ♈ | 20 12 | ♈ | 41 9 | ♈ | 5 1 | ♈ | 56 18 | ♈ | 48 | | | ♈ |
| 26 | 0 | ♈ | 16 12 | ♈ | 53 9 | ♈ | 10 1 | ♈ | 18 20 | ♈ | 41 | | | ♈ |
| 27 | 0 | ♈ | 11 12 | ♈ | 5 9 | ♈ | 15 0 | ♈ | 41 22 | ♈ | 31 | | | ♈ |
| 28 | 0 | ♈ | 7 12 | ♈ | 17 9 | ♈ | 21 0 | ♈ | 5 24 | ♈ | 19 | ♂ | ♈ | ♈ |
| 29 | 0 | ♈ | 2 12 | ♈ | 28 9 | ♈ | 28 29 | ♈ | 30 26 | ♈ | 4 | | | ♈ |
| 30 | 29 | ♈ | 58 12 | ♈ | 40 9 | ♈ | 35 28 | ♈ | 56 27 | ♈ | 46 | | | ♈ |
| 31 | 29 | ♈ | 53 12 | ♈ | 52 9 | ♈ | 43 28 | ♈ | 24 29 | ♈ | 26 | ☉ | ♈ | ♈ |

JUNE XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 46 | 0 N 28 | 13 8 12 | 2 N 10 | 16 8 1 | 1 8 11 | 5 N 36 |
| 4 | 15 | 48 | 0 28 | 13 10 | 2 10 | 17 59 | 1 11 | 5 49 |
| 7 | 15 | 47 | 0 28 | 13 8 | 2 9 | 17 56 | 1 12 | 6 1 |
| 10 | 15 | 47 | 0 28 | 13 6 | 2 9 | 17 54 | 1 12 | 6 12 |
| 13 | 15 | 46 | 0 27 | 13 5 | 2 8 | 17 52 | 1 13 | 6 23 |
| 16 | 15 | 46 | 0 27 | 13 4 | 2 8 | 17 50 | 1 14 | 6 34 |
| 19 | 15 | 46 | 0 27 | 13 3 | 2 7 | 17 48 | 1 15 | 6 44 |
| 22 | 15 | 46 | 0 27 | 13 2 | 2 7 | 17 46 | 1 15 | 6 54 |
| 25 | 15 | 46 | 0 27 | 13 1 | 2 6 | 17 44 | 1 16 | 7 3 |
| 28 | 15 | 46 | 0 27 | 13 0 | 2 6 | 17 42 | 1 16 | 7 13 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 4 38 11 | 10 11 45 | 22 N 8 | 24 55 | 5 N 8 | 16 8 | 6 19 |
| 2 | F | 4 42 7 | 11 27 8 | 22 11 | 9 16 | 5 9 | 12 59 | 6 17 |
| 3 | S | 4 46 4 | 12 34 0 | 22 11 | 23 9 | 4 51 | 9 14 | 6 16 |
| 4 | S | 4 50 0 | 13 21 56 | 22 26 | 6 34 | 4 18 | 5 7 | 6 13 |
| 5 | M | 4 53 57 | 14 19 20 | 22 32 | 19 32 | 3 32 | 0 54 | 6 12 |
| 6 | Tu | 4 57 53 | 15 16 43 | 22 39 | 27 8 | 2 37 | 3 N 15 | 6 10 |
| 7 | W | 5 1 50 | 16 14 5 | 22 45 | 14 26 | 1 36 | 7 10 | 6 8 |
| 8 | Th | 5 5 46 | 17 11 27 | 22 51 | 26 31 | 0 32 | 10 44 | 6 7 |
| 9 | F | 5 9 43 | 18 8 49 | 22 56 | 8 27 | 0 32 | 12 49 | 6 6 |
| 10 | S | 5 13 40 | 19 6 10 | 23 1 | 20 17 | 1 35 | 16 18 | 6 3 |
| 11 | S | 5 17 36 | 20 3 30 | 23 5 | 2 6 | 2 33 | 18 6 | 6 1 |
| 12 | M | 5 21 33 | 21 0 50 | 23 9 | 13 53 | 3 25 | 19 6 | 5 59 |
| 13 | Tu | 5 25 29 | 21 58 9 | 23 13 | 25 45 | 4 7 | 19 16 | 5 58 |
| 14 | W | 5 29 26 | 22 55 28 | 23 16 | 7 41 | 4 39 | 18 35 | 5 56 |
| 15 | Th | 5 33 22 | 23 52 46 | 23 19 | 19 43 | 4 59 | 17 4 | 5 54 |
| 16 | F | 5 37 19 | 24 50 3 | 23 22 | 1 53 | 5 6 | 14 47 | 5 52 |
| 17 | S | 5 41 15 | 25 47 20 | 23 24 | 14 12 | 4 59 | 11 49 | 5 52 |
| 18 | S | 5 45 12 | 26 44 36 | 23 25 | 26 48 | 4 37 | 8 17 | 5 51 |
| 19 | M | 5 49 9 | 27 41 51 | 23 27 | 9 28 | 4 1 | 4 18 | 5 50 |
| 20 | Tu | 5 53 6 | 28 39 6 | 23 27 | 22 30 | 3 12 | 0 2 | 5 48 |
| 21 | W | 5 57 3 | 29 36 19 | 23 28 | 5 53 | 2 12 | 4 8 21 | 5 47 |
| 22 | Th | 6 0 0 | 30 33 33 | 23 28 | 19 38 | 1 2 | 8 39 | 5 46 |
| 23 | F | 6 4 57 | 1 30 45 | 23 27 | 3 47 | 0 N 13 | 12 35 | 5 45 |
| 24 | S | 6 8 53 | 2 27 57 | 23 26 | 18 19 | 1 30 | 16 51 | 5 44 |
| 25 | S | 6 12 50 | 3 25 8 | 23 25 | 3 12 | 2 42 | 18 10 | 5 43 |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 14 | 3 S 42 | 0 S 6 | 19 N 36 | 2 N 9 | 25 N 37 | 1 m 9 |
| 4 | 0 8 | 4 0 | 0 40 | 18 42 | 2 3 | 25 23 | 0 59 |
| 7 | 0 2 | 4 18 | 1 23 | 17 48 | 1 49 | 24 55 | 0 50 |
| 10 | 0 S 6 | 4 40 | 1 52 | 17 13 | 1 29 | 24 16 | 0 40 |
| 13 | 0 9 | 5 2 | 2 24 | 16 34 | 1 3 | 23 28 | 0 31 |
| 16 | 0 13 | 5 27 | 2 43 | 16 8 | 0 30 | 22 35 | 0 21 |
| 19 | 0 18 | 5 52 | 3 10 | 15 55 | 0 S 8 | 21 39 | 0 12 |
| 22 | 0 22 | 6 20 | 3 25 | 15 50 | 0 50 | 20 43 | 0 2 |
| 25 | 0 27 | 6 48 | 3 41 | 15 47 | 1 36 | 19 49 | 29 Δ 58 |
| 28 | 0 31 | 7 18 | 3 48 | 15 54 | 2 24 | 19 1 | 29 43 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|--------|--------|---------|---------|------------------|----------------|---|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☽ | h | ♈ | ♉ | ♊ | ♋ |
| 1 | 29 m 48 | 17 r 3 | 9 Δ 51 | 27 s 52 | 1 s 3 | | | | * | | | Δ | |
| 2 | 29 R 44 | 17 14 | 10 0 | 27 R 25 | 2 38 | | Δ | □ | | | | Δ | |
| 3 | 29 40 | 17 25 | 10 10 | 26 59 | 4 9 | | | □ | * | | | □ | |
| 4 | 29 35 | 17 36 | 10 20 | 26 34 | 5 36 | | | Δ | | | | | Δ |
| 5 | 29 31 | 17 47 | 10 31 | 26 11 | 7 0 | ♀ Δ h | □ | | | | | | |
| 6 | 29 27 | 17 58 | 10 43 | 25 50 | 8 22 | | | | Δ | | | * | □ |
| 7 | 29 23 | 18 9 | 10 56 | 25 27 | 9 42 | | * | | | ♈ | ♉ | * | □ |
| 8 | 29 18 | 18 20 | 11 9 | 25 13 | 10 59 | ♀ □ ♂ | | | | | | | * |
| 9 | 29 14 | 18 30 | 11 23 | 25 1 | 12 12 | ☉ * ♈ | | ♈ | | | | | * |
| 10 | 29 10 | 18 41 | 11 37 | 24 52 | 13 22 | | | | | | | ♈ | |
| 11 | 29 6 | 18 51 | 11 52 | 24 43 | 14 29 | | | | ♈ | | | | |
| 12 | 29 2 | 19 1 | 12 7 | 24 39 | 15 32 | | | | | * | Δ | | |
| 13 | 28 58 | 19 11 | 12 23 | 24 27 | 16 31 | | ♈ | | | | | | |
| 14 | 28 54 | 19 21 | 12 39 | 24 24 | 17 27 | | | Δ | | | | | |
| 15 | 28 50 | 19 31 | 12 56 | 24 D 23 | 18 20 | | | | | | □ | □ | * ♂ |
| 16 | 28 46 | 19 41 | 13 13 | 24 25 | 19 10 | | | □ | Δ | | | | |
| 17 | 28 43 | 19 51 | 13 31 | 24 30 | 19 56 | ♀ □ ♈ | | | | | Δ | * | |
| 18 | 28 39 | 20 1 | 13 49 | 24 37 | 20 38 | | * | | | □ | | | □ |
| 19 | 28 36 | 20 10 | 14 8 | 24 50 | 21 16 | | | * | | | | | |
| 20 | 28 32 | 20 19 | 14 27 | 25 2 | 21 50 | | □ | | * | | | Δ | * |
| 21 | 28 29 | 20 28 | 14 47 | 25 17 | 22 20 | | | | | | | | |
| 22 | 28 25 | 20 37 | 15 8 | 25 34 | 22 45 | | | | | | ♈ | ♈ | □ |
| 23 | 28 22 | 20 46 | 15 29 | 25 53 | 23 6 | | Δ | ♈ | | | | | |
| 24 | 28 18 | 20 55 | 15 50 | 26 14 | 23 22 | | | | | | | | Δ |
| 25 | 28 15 | 21 4 | 16 11 | 26 27 | 23 34 | | | | | ♈ | | | ♈ |
| 26 | 28 12 | 21 11 | 16 33 | 26 49 | 23 41 | | | | | | Δ | * | |
| 27 | 28 9 | 21 21 | 16 55 | 27 13 | 23 R 44 | ☉ Δ h | ♈ | * | | | | | |
| 28 | 28 6 | 21 29 | 17 18 | 27 39 | 23 42 | | | | | | □ | □ | ♈ |
| 29 | 28 3 | 21 37 | 17 41 | 28 7 | 23 36 | ♀ ♂ h | | □ | * | | | | Δ |
| 30 | 28 0 | 21 45 | 18 5 | 28 36 | 23 25 | | | | | * | Δ | | |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 27 | 13 S 0 | 2 N 5 | 17 S 42 | 1 S 17 | 7 N 20 |
| 4 | 15 | 45 | 0 27 | 12 59 | 2 5 | 17 41 | 1 17 | 7 28 |
| 7 | 15 | 45 | 0 27 | 12 59 | 2 4 | 17 40 | 1 18 | 7 36 |
| 10 | 15 | 46 | 0 27 | 12 58 | 2 3 | 17 39 | 1 19 | 7 42 |
| 13 | 15 | 46 | 0 27 | 12 58 | 2 2 | 17 38 | 1 20 | 7 49 |
| 16 | 15 | 46 | 0 27 | 12 58 | 2 2 | 17 38 | 1 20 | 7 54 |
| 19 | 15 | 46 | 0 27 | 12 59 | 2 1 | 17 37 | 1 21 | 7 57 |
| 22 | 15 | 46 | 0 26 | 12 59 | 2 1 | 17 37 | 1 22 | 8 4 |
| 25 | 15 | 47 | 0 26 | 13 0 | 2 0 | 17 37 | 1 23 | 8 8 |
| 28 | 15 | 47 | 0 26 | 13 0 | 2 0 | 17 37 | 1 23 | 8 12 |
| 31 | 15 | 47 | 0 26 | 13 1 | 1 59 | 17 38 | 1 24 | 8 14 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|-----------------|-------------|------------|--------------------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 6 36 31 | 9 ²⁵ | 8 14 | 23 N 9 | 1 ^x 53 | 4 N 20 | 6 S 46 |
| 2 | S | 6 40 27 | 10 | 5 25 | 23 5 | 15 23 | 3 35 | 2 27 |
| 3 | M | 6 44 24 | 11 | 2 36 | 23 0 | 28 25 | 2 41 | 1 N 50 |
| 4 | Tu | 6 48 20 | 11 | 59 48 | 22 55 | 11 ^r 2 | 1 41 | 5 55 |
| 5 | W | 6 52 17 | 12 | 57 0 | 22 50 | 23 19 | 0 87 | 9 39 |
| 6 | Th | 6 56 14 | 13 | 54 12 | 22 44 | 5 ⁸ 22 | 0 S 26 | 12 54 |
| 7 | F | 7 0 10 | 14 | 51 25 | 22 38 | 17 15 | 1 29 | 15 35 |
| 8 | S | 7 4 7 | 15 | 48 38 | 22 31 | 29 4 | 2 26 | 17 35 |
| 9 | S | 7 8 3 | 16 | 45 52 | 22 25 | 10 ^Π 52 | 3 17 | 18 50 |
| 10 | M | 7 12 0 | 17 | 43 6 | 22 17 | 22 43 | 4 0 | 19 16 |
| 11 | Tu | 7 15 56 | 18 | 40 21 | 22 10 | 4 ²⁵ 39 | 4 32 | 18 51 |
| 12 | W | 7 19 53 | 19 | 37 36 | 22 1 | 16 44 | 4 58 | 17 34 |
| 13 | Th | 7 23 49 | 20 | 34 51 | 21 53 | 28 56 | 5 0 | 15 29 |
| 14 | F | 7 27 46 | 21 | 32 6 | 21 44 | 11 ^Ω 19 | 4 54 | 12 41 |
| 15 | S | 7 31 43 | 22 | 29 22 | 21 35 | 23 51 | 4 38 | 9 17 |
| 16 | S | 7 35 39 | 23 | 26 38 | 21 25 | 6 ^m 34 | 3 59 | 5 25 |
| 17 | M | 7 39 36 | 24 | 23 55 | 21 16 | 19 30 | 3 11 | 1 14 |
| 18 | Tu | 7 43 32 | 25 | 21 11 | 21 5 | 2 ^Δ 38 | 2 13 | 3 S 5 |
| 19 | W | 7 47 29 | 26 | 18 28 | 20 55 | 16 2 | 1 6 | 7 20 |
| 20 | Th | 7 51 25 | 27 | 15 45 | 20 44 | 29 43 | 0 N 6 | 11 18 |
| 21 | F | 7 55 22 | 28 | 13 2 | 20 32 | 13 ^m 42 | 1 19 | 14 43 |
| 22 | S | 7 59 18 | 29 | 10 19 | 20 21 | 28 0 | 2 28 | 17 19 |
| 23 | S | 8 3 15 | 0 ^Ω | 7 37 | 20 9 | 12 [†] 34 | 3 30 | 18 51 |
| 24 | M | 8 7 12 | 1 | 4 55 | 19 56 | 27 22 | 4 18 | 19 8 |
| 25 | Tu | 8 11 8 | 2 | 2 14 | 19 43 | 12 ^v 15 | 4 49 | 18 6 |
| 26 | W | 8 15 5 | 2 | 59 33 | 19 30 | 27 7 | 5 0 | 15 50 |
| 27 | Th | 8 19 1 | 3 | 56 53 | 19 17 | 11 ^m 47 | 4 52 | 12 35 |
| 28 | F | 8 22 58 | 4 | 54 14 | 19 3 | 26 9 | 4 25 | 8 39 |
| 29 | S | 8 26 54 | 5 | 51 36 | 18 49 | 10 ^x 6 | 3 43 | 4 21 |
| 30 | S | 8 30 51 | 6 | 48 59 | 18 35 | 23 36 | 2 49 | 0 N 3 |
| 31 | M | 8 34 47 | 7 | 46 23 | 18 21 | 6 ^r 40 | 1 48 | 4 18 |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|-------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 26 | 13 S 2 | 1 N 58 | 17 S 38 | 1 S 25 | 8 N |
| 4 | 15 | 47 | 0 26 | 13 3 | 1 58 | 17 39 | 1 25 | 8 |
| 7 | 15 | 48 | 0 26 | 13 4 | 1 57 | 17 40 | 1 26 | 8 |
| 10 | 15 | 48 | 0 26 | 13 6 | 1 56 | 17 42 | 1 27 | 8 |
| 13 | 15 | 49 | 0 26 | 13 7 | 1 55 | 17 43 | 1 28 | 8 |
| 16 | 15 | 49 | 0 26 | 13 9 | 1 55 | 17 44 | 1 28 | 8 |
| 19 | 15 | 50 | 0 26 | 13 11 | 1 54 | 17 46 | 1 29 | 8 |
| 22 | 15 | 50 | 0 25 | 13 12 | 1 53 | 17 48 | 1 30 | 8 |
| 25 | 15 | 51 | 0 25 | 13 14 | 1 53 | 17 51 | 1 30 | 8 |
| 28 | 15 | 51 | 0 25 | 13 16 | 1 52 | 17 53 | 1 31 | 8 |
| 31 | 15 | 52 | 0 25 | 13 18 | 1 52 | 17 58 | 1 31 | 8 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Lon |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|----------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | Tu | 8 38 44 | 8 2 43 47 | 18 N 6 | 19 19 | 0 N 43 | 8 N 14 | 5 m |
| 2 | W | 8 42 41 | 9 41 14 | 17 50 | 1 38 | 0 S 22 | 11 43 | 5 |
| 3 | Th | 8 46 37 | 10 38 41 | 17 35 | 13 42 | 1 25 | 14 37 | 5 |
| 4 | F | 8 50 34 | 11 36 10 | 17 19 | 25 37 | 2 24 | 16 51 | 5 |
| 5 | S | 8 54 30 | 12 33 40 | 17 3 | 7 26 | 3 15 | 18 22 | 5 |
| 6 | S | 8 58 27 | 13 31 11 | 16 47 | 19 16 | 3 59 | 19 4 | 5 |
| 7 | M | 9 2 23 | 14 28 44 | 16 30 | 1 11 | 4 32 | 18 56 | 5 |
| 8 | Tu | 9 6 20 | 15 26 18 | 16 13 | 13 13 | 4 53 | 17 56 | 5 |
| 9 | W | 9 10 16 | 16 23 54 | 15 56 | 25 27 | 5 2 | 16 7 | 5 |
| 10 | Th | 9 14 13 | 17 21 30 | 15 39 | 7 52 | 4 56 | 13 33 | 5 |
| 11 | F | 9 18 10 | 18 19 8 | 15 21 | 20 30 | 4 36 | 10 18 | 5 |
| 12 | S | 9 22 6 | 19 16 47 | 15 3 | 3 20 | 4 2 | 6 32 | 5 |
| 13 | S | 9 26 3 | 20 14 28 | 14 45 | 16 22 | 3 14 | 2 24 | 5 |
| 14 | M | 9 29 59 | 21 12 9 | 14 27 | 29 35 | 2 16 | 1 55 | 5 |
| 15 | Tu | 9 33 56 | 22 9 51 | 14 8 | 13 0 | 1 9 | 6 12 | 5 |
| 16 | W | 9 37 52 | 23 7 35 | 13 49 | 26 35 | 0 N 3 | 10 13 | 6 |
| 17 | Th | 9 41 49 | 24 5 19 | 13 30 | 10 21 | 1 16 | 13 44 | 6 |
| 18 | F | 9 45 45 | 25 3 5 | 13 11 | 24 19 | 2 25 | 16 31 | 6 |
| 19 | S | 9 49 42 | 26 0 52 | 12 52 | 8 28 | 3 27 | 18 20 | 6 |
| 20 | S | 9 53 39 | 26 58 39 | 12 32 | 22 47 | 4 16 | 19 0 | 6 |
| 21 | M | 9 57 35 | 27 56 28 | 12 12 | 7 12 | 4 49 | 18 27 | 6 |
| 22 | Tu | 10 1 32 | 28 54 18 | 11 52 | 21 41 | 5 5 | 16 42 | 6 |
| 23 | W | 10 5 28 | 29 52 10 | 11 32 | 6 8 | 5 0 | 13 54 | 6 |
| 24 | Th | 10 9 25 | 0 50 2 | 11 11 | 20 25 | 4 37 | 10 18 | 6 |
| 25 | F | 10 13 21 | 1 47 57 | 10 51 | 4 29 | 3 58 | 6 11 | 6 |
| 26 | S | 10 17 18 | 2 45 53 | 10 30 | 18 13 | 3 5 | 1 50 | 6 |
| 27 | S | 10 21 14 | 3 43 50 | 10 9 | 1 35 | 2 3 | 2 N 31 | 6 |
| 28 | M | 10 25 10 | 4 41 49 | 9 48 | 14 34 | 0 56 | 6 37 | 6 |
| 29 | Tu | 10 29 6 | 5 39 50 | 9 27 | 27 12 | 0 8 | 11 10 | 6 |
| 30 | W | 10 33 2 | 6 37 52 | 9 5 | 9 32 | 1 17 | 13 27 | 6 |
| 31 | Th | 10 36 58 | 7 35 57 | 8 44 | 21 37 | 2 18 | 15 57 | 6 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 18 7 | 18 S 44 | 3 S 30 | 19 N 47 | 1 S 26 | 20 N 38 | 27 ♄ 55 |
| 4 | 1 9 | 14 20 | 3 20 | 20 6 | 0 41 | 20 49 | 27 45 |
| 7 | 1 11 | 14 56 | 3 10 | 20 18 | 0 N 1 | 20 42 | 27 36 |
| 10 | 1 13 | 15 32 | 2 59 | 20 37 | 0 37 | 20 13 | 27 26 |
| 13 | 1 15 | 16 8 | 2 47 | 20 36 | 1 6 | 19 20 | 27 17 |
| 16 | 1 17 | 16 43 | 2 35 | 20 37 | 1 27 | 18 4 | 27 7 |
| 19 | 1 19 | 17 18 | 2 22 | 20 38 | 1 40 | 16 27 | 26 58 |
| 22 | 1 21 | 17 52 | 2 10 | 20 31 | 1 46 | 14 33 | 26 48 |
| 25 | 1 22 | 18 26 | 1 57 | 20 23 | 1 45 | 12 28 | 26 39 |
| 28 | 1 24 | 18 58 | 1 46 | 20 7 | 1 39 | 10 15 | 26 29 |
| 31 | 1 25 | 19 30 | 1 31 | 19 48 | 1 28 | 7 57 | 26 20 |

| D
M | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|----------|----------|----------|----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♀ | ♂ | ♀ | ♂ |
| | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 27 13 24 | 38 3 29 | 23 11 4 | 19 26 27 | | | | | ♂ | * | □ |
| 2 | 27 13 24 | 40 4 2 | 24 1 20 | 31 | | | ♂ | | ♂ | | |
| 3 | 27 13 24 | 42 4 36 | 24 59 21 | 43 | ♀ * ♀ | □ | | | | | |
| 4 | 27 13 24 | 44 5 9 | 25 57 23 | 4 | | | ♂ | | | | * |
| 5 | 27 14 24 | 46 5 43 | 26 56 24 | 20 | ♀ □ ♀ | * | | | | | |
| 6 | 27 14 24 | 48 6 17 | 27 54 25 | 57 | ♂ ♂ ♀ | ♂ | | | * | | |
| 7 | 27 15 24 | 50 6 51 | 28 53 27 | 27 | ♀ Δ ♀ | Δ | | | Δ | ♂ | |
| 8 | 27 16 24 | 51 7 26 | 29 53 29 | 2 | | | | | | | |
| 9 | 27 17 24 | 52 8 1 | 0 53 0 | 43 | | | Δ | □ | | | ♂ |
| 10 | 27 18 24 | 53 8 36 | 1 54 2 | 29 | | □ | | | □ | | |
| 11 | 27 19 24 | 54 9 11 | 2 54 4 | 17 | | ♂ | | | Δ | | |
| 12 | 27 20 24 | 55 9 46 | 3 54 6 | 8 | ♀ □ ♀ | | * | □ | | * | |
| 13 | 27 20 24 | 55 10 21 | 4 55 8 | 1 | | | | | | * | |
| 14 | 27 21 24 | 55 10 57 | 5 56 9 | 56 | ♀ □ ♂ | | * | | | □ | |
| 15 | 27 22 24 | 55 11 33 | 6 58 11 | 53 | ♀ Δ ♀ | | | | | | * |
| 16 | 27 24 24 | 55 12 9 | 8 0 13 | 53 | | * | | | ♂ | | |
| 17 | 27 25 24 | 54 12 45 | 9 3 15 | 53 | | | ♂ | | ♂ | Δ | □ |
| 18 | 27 27 24 | 54 13 21 | 10 6 17 | 53 | ☉ Δ ♀ | □ | | ♂ | | | |
| 19 | 27 29 24 | 53 13 57 | 11 9 19 | 53 | | | | | | | |
| 20 | 27 31 24 | 52 14 34 | 12 12 21 | 54 | | Δ | | | Δ | | Δ |
| 21 | 27 33 24 | 51 15 11 | 13 16 23 | 54 | ☉ □ ♀ | | * | | | ♂ | |
| 22 | 27 35 24 | 49 15 48 | 14 20 25 | 54 | ♀ Δ ♀ | | | * | □ | * | |
| 23 | 27 37 24 | 48 16 25 | 15 24 27 | 53 | ♀ □ ♀ | □ | | | | | |
| 24 | 27 39 24 | 46 17 2 | 16 28 29 | 52 | | | | □ | * | □ | |
| 25 | 27 42 24 | 44 17 40 | 17 32 1 | 50 | ☉ ♂ ♀ | ♂ | Δ | | | | ♂ |
| 26 | 27 44 24 | 41 18 18 | 18 37 3 | 47 | ♀ Δ ♂ | | | | | Δ | Δ |
| 27 | 27 47 24 | 39 18 56 | 19 42 5 | 43 | ♀ * ♀ | | | Δ | | | |
| 28 | 27 49 24 | 36 19 34 | 20 47 7 | 38 | | | | | | | |
| 29 | 27 52 24 | 34 20 12 | 21 53 9 | 32 | | | | | ♂ | | □ |
| 30 | 27 55 24 | 31 20 50 | 22 58 11 | 24 | ☉ * ♀ | Δ | ♂ | | | | Δ |
| 31 | 27 57 24 | 28 21 28 | 24 3 13 | 15 | ♀ □ ♀ | | | | | ♂ | * |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 25 | 13 S 20 | 1 N 51 | 17 S 56 | 1 S 32 | 8 N 2 |
| 4 | 15 | 54 | 0 25 | 13 22 | 1 50 | 17 59 | 1 33 | 7 57 |
| 7 | 15 | 55 | 0 25 | 13 25 | 1 49 | 18 2 | 1 34 | 7 52 |
| 10 | 15 | 56 | 0 25 | 13 29 | 1 49 | 18 5 | 1 34 | 7 46 |
| 13 | 15 | 57 | 0 25 | 13 31 | 1 48 | 18 8 | 1 35 | 7 40 |
| 16 | 15 | 57 | 0 25 | 13 34 | 1 48 | 18 11 | 1 35 | 7 33 |
| 19 | 15 | 58 | 0 24 | 13 37 | 1 47 | 18 15 | 1 36 | 7 26 |
| 22 | 15 | 59 | 0 24 | 13 39 | 1 46 | 18 18 | 1 36 | 7 18 |
| 25 | 16 | 0 | 0 24 | 13 42 | 1 45 | 18 22 | 1 36 | 7 10 |
| 28 | 16 | 0 | 0 24 | 13 45 | 1 45 | 18 26 | 1 36 | 7 1 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☿
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|---------------------|-------------|---------------------|-----------|-------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 10 40 54 | 8 ^m 34 4 | 8 N 22 | 8 ^h 13 3 | 8 S 13 | 17 N 44 | 6 ^m 35 |
| 2 | S | 10 44 50 | 9 32 12 | 8 0 | 15 24 | 3 58 | 18 43 | 6 37 |
| 3 | S | 10 48 47 | 10 30 23 | 7 38 | 27 16 | 4 34 | 18 52 | 6 40 |
| 4 | M | 10 52 43 | 11 28 36 | 7 16 | 9 ^h 13 | 4 58 | 18 11 | 6 42 |
| 5 | Tu | 10 56 40 | 12 26 51 | 6 54 | 21 19 | 5 9 | 16 41 | 6 45 |
| 6 | W | 11 0 37 | 13 25 7 | 6 31 | 3 ^h 23 9 | 5 6 | 14 24 | 6 47 |
| 7 | Th | 11 4 33 | 14 23 26 | 6 9 | 16 14 | 4 48 | 11 24 | 6 50 |
| 8 | F | 11 8 30 | 15 21 47 | 5 46 | 29 5 | 4 16 | 7 48 | 6 52 |
| 9 | S | 11 12 26 | 16 20 9 | 5 24 | 12 ^m 14 | 3 29 | 3 45 | 6 55 |
| 10 | S | 11 16 23 | 17 18 34 | 5 1 | 25 38 | 2 30 | 0 S 33 | 6 58 |
| 11 | M | 11 20 19 | 18 17 1 | 4 38 | 9 ^h 15 | 1 22 | 4 55 | 7 1 |
| 12 | Tu | 11 24 16 | 19 15 29 | 4 15 | 23 4 | 0 7 | 9 5 | 7 3 |
| 13 | W | 11 28 12 | 20 13 58 | 3 52 | 7 ^m 1 | 1 N 9 | 12 47 | 7 6 |
| 14 | Th | 11 32 9 | 21 12 30 | 3 29 | 21 5 | 2 21 | 15 47 | 7 8 |
| 15 | F | 11 36 6 | 22 11 3 | 3 6 | 5 ^h 18 | 3 25 | 17 50 | 7 11 |
| 16 | S | 11 40 2 | 23 9 37 | 2 43 | 19 23 | 4 17 | 18 46 | 7 14 |
| 17 | S | 11 43 59 | 24 8 14 | 2 20 | 3 ^h 34 | 4 53 | 18 32 | 7 17 |
| 18 | M | 11 47 55 | 25 6 52 | 1 57 | 17 44 | 5 11 | 17 9 | 7 20 |
| 19 | Tu | 11 51 52 | 26 5 31 | 1 33 | 1 ^m 50 | 5 11 | 14 43 | 7 23 |
| 20 | W | 11 55 48 | 27 4 12 | 1 10 | 15 50 | 4 52 | 11 28 | 7 26 |
| 21 | Th | 11 59 45 | 28 2 55 | 0 47 | 29 39 | 4 16 | 7 37 | 7 30 |
| 22 | F | 12 3 41 | 29 1 40 | 0 23 | 13 ^h 17 | 3 26 | 3 25 | 7 33 |
| 23 | S | 12 7 38 | 0 ^h 0 27 | 0 S 0 | 26 38 | 2 25 | 0 N 53 | 7 37 |
| 24 | S | 12 11 34 | 0 59 16 | 0 24 | 9 ^h 44 | 1 18 | 5 3 | 7 40 |
| 25 | M | 12 15 31 | 1 58 6 | 0 47 | 22 32 | 0 9 | 8 54 | 7 44 |
| 26 | Tu | 12 19 28 | 2 56 59 | 1 10 | 5 ^h 3 | 1 S 0 | 12 16 | 7 47 |
| 27 | W | 12 23 24 | 3 55 54 | 1 34 | 17 19 | 2 5 | 15 1 | 7 50 |
| 28 | Th | 12 27 21 | 4 54 51 | 1 57 | 29 24 | 3 3 | 17 4 | 7 53 |
| 29 | F | 12 31 17 | 5 53 51 | 2 21 | 11 ^h 20 | 3 52 | 18 20 | 7 56 |
| 30 | S | 12 35 14 | 6 52 53 | 2 44 | 23 11 | 4 31 | 18 46 | 7 59 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 18 25 | 19 S 41 | 1 S 26 | 19 N 43 | 1 N 24 | 7 N 10 | 26 17 |
| 4 | 1 27 | 20 11 | 1 13 | 19 15 | 1 9 | 4 50 | 26 7 |
| 7 | 1 28 | 20 42 | 1 0 | 18 48 | 0 51 | 2 30 | 25 58 |
| 10 | 1 29 | 21 13 | 0 48 | 18 2 | 0 31 | 0 11 | 25 48 |
| 13 | 1 30 | 21 38 | 0 35 | 17 34 | 0 10 | 2 S 4 | 25 39 |
| 16 | 1 31 | 22 8 | 0 23 | 16 46 | 0 S 12 | 4 16 | 25 29 |
| 19 | 1 31 | 22 28 | 0 10 | 16 2 | 0 35 | 6 24 | 25 20 |
| 22 | 1 32 | 22 51 | 0 N 1 | 15 7 | 0 57 | 8 26 | 25 10 |
| 25 | 1 32 | 23 13 | 0 12 | 14 13 | 1 20 | 10 23 | 25 0 |
| 28 | 1 33 | 23 35 | 0 22 | 13 10 | 1 42 | 12 13 | 24 51 |

| D
M | h | ♄ | ♂ | ♀ | ♅ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 28 m 0 | 24 r 25 | 22 m 7 | 25 5 9 | 15 m 5 | | ☐ | | ♂ | | | | |
| 2 | 28 3 | 24 R 21 | 22 46 | 26 16 | 16 54 | | | • | | | | | ☐ |
| 3 | 28 6 | 24 17 | 23 25 | 27 23 | 18 42 | | | | | * | | | |
| 4 | 28 9 | 24 13 | 24 4 | 28 30 | 20 28 | ♀ Δ h | * | Δ | | | | | |
| 5 | 28 12 | 24 9 | 24 43 | 29 37 | 22 13 | | | | | ☐ | Δ | | * |
| 6 | 28 15 | 24 5 | 25 22 | 0 5 44 | 23 54 | | | ☐ | Δ | | | ♂ | |
| 7 | 28 19 | 24 1 | 26 1 | 1 51 | 25 41 | ♂ * ♂ | | | | | | | |
| 8 | 28 22 | 23 56 | 26 40 | 2 58 | 27 23 | ♂ * h | | | ☐ | Δ | ☐ | | |
| 9 | 28 26 | 23 51 | 27 20 | 4 6 | 29 4 | | ♂ | * | | | | | |
| 10 | 28 30 | 23 46 | 28 0 | 5 14 | 0 43 | ♂ ♂ h | | | * | | * | | ♂ |
| 11 | 28 33 | 23 41 | 28 40 | 6 22 | 2 22 | ♀ ☐ h | | | | | | * | |
| 12 | 28 37 | 23 36 | 29 20 | 7 30 | 4 59 | | | | | | ♂ | | * |
| 13 | 28 41 | 23 30 | 0 † 0 | 8 38 | 5 35 | | | ♂ | | | | ☐ | |
| 14 | 28 45 | 23 24 | 0 41 | 9 46 | 7 10 | | * | | | | | | |
| 15 | 28 49 | 23 18 | 1 21 | 10 55 | 8 44 | | | | ♂ | | ♂ | Δ | * |
| 16 | 28 53 | 23 12 | 2 2 | 12 4 | 10 18 | | ☐ | | | | Δ | | |
| 17 | 28 57 | 23 6 | 2 42 | 13 13 | 11 51 | | | * | | | | | |
| 18 | 29 1 | 23 0 | 3 23 | 14 22 | 13 22 | | | | | ☐ | | | ☐ |
| 19 | 29 6 | 22 54 | 4 4 | 15 31 | 14 52 | | Δ | ☐ | * | | * | | |
| 20 | 29 10 | 22 47 | 4 45 | 16 40 | 16 21 | | | | | * | | ♂ | Δ |
| 21 | 29 15 | 22 40 | 5 26 | 17 49 | 17 49 | ♂ * ♀ | | | ☐ | | | ☐ | |
| 22 | 29 20 | 22 34 | 6 8 | 18 59 | 19 16 | ☉ * h | | Δ | | | | | |
| 23 | 29 24 | 22 27 | 6 49 | 20 9 | 20 42 | | ♂ | | Δ | | | | |
| 24 | 29 29 | 22 20 | 7 30 | 21 19 | 22 7 | ♂ ♂ ♄ | | | | | Δ | | |
| 25 | 29 34 | 22 13 | 8 12 | 22 29 | 23 31 | ♀ Δ ♄ | | | | ♂ | | Δ | ♂ |
| 26 | 29 39 | 22 6 | 8 54 | 23 40 | 24 54 | | | ♂ | | | | | |
| 27 | 29 44 | 21 59 | 9 36 | 24 51 | 26 16 | | | | | | | | |
| 28 | 29 49 | 21 51 | 10 18 | 26 1 | 27 36 | | Δ | | | ♂ | | ☐ | |
| 29 | 29 54 | 21 44 | 11 0 | 27 12 | 28 58 | | | | | | | ♂ | |
| 30 | 29 59 | 21 37 | 11 43 | 28 22 | 0 m 13 | | | | | | * | | * |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 24 | 18 S 49 | 1 N 44 | 18 S 29 | 1 S 37 | 6 N 53 |
| 4 | 16 | 1 | 0 24 | 18 58 | 1 44 | 18 33 | 1 37 | 6 44 |
| 7 | 16 | 2 | 0 24 | 18 57 | 1 43 | 18 37 | 1 37 | 6 35 |
| 10 | 16 | 3 | 0 24 | 14 1 | 1 43 | 18 41 | 1 37 | 6 26 |
| 13 | 16 | 4 | 0 24 | 14 3 | 1 42 | 18 45 | 1 37 | 6 17 |
| 16 | 16 | 5 | 0 24 | 14 6 | 1 42 | 18 49 | 1 37 | 6 8 |
| 19 | 16 | 5 | 0 24 | 14 9 | 1 41 | 18 53 | 1 37 | 5 59 |
| 22 | 16 | 6 | 0 24 | 14 12 | 1 41 | 18 57 | 1 37 | 5 50 |
| 25 | 16 | 7 | 0 24 | 14 15 | 1 41 | 19 1 | 1 36 | 5 42 |
| 28 | 16 | 7 | 0 24 | 14 18 | 1 41 | 19 5 | 1 36 | 5 34 |
| 31 | 16 | 8 | 0 24 | 14 21 | 1 41 | 19 9 | 1 36 | 5 26 |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 12 39 10 | 7 51 57 | 3 S 7 | 5 5 3 | 4 S 59 | 18 N 23 | 8 m 3 |
| 2 | M | 12 43 7 | 8 51 4 | 3 31 17 | 0 | 5 14 17 | 11 | 8 6 |
| 3 | Tu | 12 47 3 | 9 50 12 | 3 54 29 | 7 | 5 15 15 | 13 | 8 10 |
| 4 | W | 12 51 0 | 10 49 24 | 4 17 11 | 28 | 5 2 12 | 31 | 8 13 |
| 5 | Th | 12 54 57 | 11 48 37 | 4 40 24 | 6 | 4 34 9 | 11 | 8 16 |
| 6 | F | 12 58 53 | 12 47 58 | 5 4 7 | m 5 | 3 52 5 | 20 | 8 20 |
| 7 | S | 13 2 50 | 13 47 12 | 5 27 20 | 25 | 2 56 1 | 6 | 8 23 |
| 8 | S | 13 6 46 | 14 46 32 | 5 50 4 | 7 | 1 48 3 | 18 | 8 27 |
| 9 | M | 13 10 43 | 15 45 54 | 6 13 18 | 7 | 0 33 7 | 37 | 8 30 |
| 10 | Tu | 13 14 39 | 16 45 19 | 6 35 2 | m 22 | 0 N 46 | 11 | 8 34 |
| 11 | W | 13 18 36 | 17 44 45 | 6 58 16 | 48 | 2 3 14 | 54 | 8 37 |
| 12 | Th | 13 22 32 | 18 44 14 | 7 21 1 | 18 | 3 12 17 | 18 | 8 40 |
| 13 | F | 13 26 29 | 19 43 44 | 7 43 15 | 48 | 4 10 18 | 34 | 8 44 |
| 14 | S | 13 30 26 | 20 43 16 | 8 6 0 | w 18 | 4 50 18 | 37 | 8 47 |
| 15 | S | 13 34 22 | 21 42 50 | 8 28 14 | 29 | 5 13 17 | 29 | 8 50 |
| 16 | M | 13 38 19 | 22 42 25 | 8 50 28 | 34 | 5 16 15 | 18 | 8 54 |
| 17 | Tu | 13 42 15 | 23 42 3 | 9 13 12 | m 27 | 5 1 12 | 16 | 8 57 |
| 18 | W | 13 46 12 | 24 41 42 | 9 34 26 | 5 | 4 29 8 | 36 | 9 1 |
| 19 | Th | 13 50 8 | 25 41 22 | 9 56 9 | x 30 | 3 43 4 | 34 | 9 5 |
| 20 | F | 13 54 5 | 26 41 5 | 10 18 22 | 41 | 2 46 0 | 22 | 9 9 |
| 21 | S | 13 58 1 | 27 40 49 | 10 39 5 | r 39 | 1 41 3 | N 47 | 9 14 |
| 22 | S | 14 1 58 | 28 40 35 | 11 1 18 | 23 | 0 32 7 | 42 | 9 18 |
| 23 | M | 14 5 55 | 29 40 23 | 11 22 0 | x 55 | 0 S 38 | 11 | 9 22 |
| 24 | Tu | 14 9 51 | 0 m 40 | 13 11 | 43 | 1 44 14 | 10 | 9 25 |
| 25 | W | 14 13 48 | 1 40 5 | 12 4 25 | 24 | 2 45 16 | 28 | 9 29 |
| 26 | Th | 14 17 44 | 2 39 59 | 12 25 7 | 25 | 3 38 17 | 59 | 9 33 |
| 27 | F | 14 21 41 | 3 39 56 | 12 45 19 | 19 | 4 20 18 | 42 | 9 37 |
| 28 | S | 14 25 37 | 4 39 54 | 13 5 1 | 11 | 4 52 18 | 36 | 9 41 |
| 29 | S | 14 29 34 | 5 39 55 | 13 25 13 | 2 | 5 11 17 | 40 | 9 45 |
| 30 | M | 14 33 30 | 6 39 57 | 13 45 24 | 57 | 5 16 15 | 58 | 9 48 |
| 31 | Tu | 14 37 27 | 7 40 8 | 14 5 7 | 2 | 5 8 13 | 33 | 9 51 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 33 | 23 S 50 | 0 N 38 | 12 N 10 | 28 3 | 13 S 55 | 24 41 |
| 4 | 1 34 | 24 8 | 0 42 | 11 0 | 2 22 | 15 30 | 24 31 |
| 7 | 1 34 | 24 21 | 0 52 | 9 53 | 2 40 | 16 54 | 24 23 |
| 10 | 1 34 | 24 31 | 0 59 | 8 59 | 2 54 | 18 7 | 24 12 |
| 13 | 1 34 | 24 43 | 1 8 | 7 24 | 3 5 | 19 7 | 24 8 |
| 16 | 1 34 | 24 50 | 1 16 | 6 5 | 3 11 | 19 50 | 23 53 |
| 19 | 1 33 | 24 56 | 1 21 | 4 47 | 3 9 | 20 12 | 23 44 |
| 22 | 1 33 | 24 59 | 1 26 | 3 28 | 2 58 | 20 8 | 23 34 |
| 25 | 1 33 | 25 1 | 1 31 | 2 8 | 2 33 | 19 31 | 23 25 |
| 28 | 1 32 | 25 0 | 1 34 | 0 33 | 1 54 | 18 15 | 23 15 |
| 31 | 1 32 | 24 56 | 1 38 | 0 S 46 | 1 0 | 16 22 | 23 6 |

| D
M | h | M | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-----|-------|-------|------|--------|------------------|----------------|---|---|---|---|---|---|-----|
| | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | |
| 1 | 0 f | 4 21 | 7 29 | 12 f | 24 29 | Q 32 | 1 m 30 | ☐ | Δ | | | | | Δ |
| 2 | 0 | 9 21 | 12 18 | 7 | 0 m 43 | 2 46 | ♀ ☐ h | | | | ☐ | | | |
| 3 | 0 | 15 21 | 14 13 | 49 | 1 54 | 4 0 | | | | Δ | | | | ☐ |
| 4 | 0 | 20 21 | 6 14 | 32 | 3 5 | 5 11 | | ■ | ☐ | | | Δ | | |
| 5 | 0 | 26 20 | 68 15 | 14 | 4 16 | 6 21 | | | | ☐ | Δ | | | |
| 6 | 0 | 31 20 | 50 15 | 57 | 5 27 | 7 30 | | | * | | | | | |
| 7 | 0 | 37 20 | 42 16 | 40 | 6 39 | 8 37 | ♀ ☉ h | | | * | | | | |
| 8 | 0 | 42 20 | 34 17 | 33 | 7 30 | 9 42 | | | | * | | | | |
| 9 | 0 | 48 20 | 26 18 | 6 | 9 2 | 10 44 | ♀ * h | ☉ | ☉ | | | Δ | | |
| 10 | 0 | 54 20 | 18 18 | 40 | 10 14 | 11 42 | | | ☉ | | | | | |
| 11 | 0 | 59 20 | 10 19 | 32 | 11 26 | 12 38 | | | | | | | * | ☉ |
| 12 | 1 | 5 20 | 2 20 | 15 | 12 38 | 13 32 | ♂ Δ h | | | ☉ | | | * | ☉ |
| 13 | 1 | 11 19 | 53 20 | 59 | 13 50 | 14 38 | | * | | | Δ | ☉ | ☐ | |
| 14 | 1 | 17 19 | 45 21 | 42 | 15 2 | 15 11 | ♀ * ♀ | | | * | | | | * |
| 15 | 1 | 23 19 | 37 22 | 26 | 16 14 | 15 54 | | | * | | ☐ | | Δ | * |
| 16 | 1 | 29 19 | 29 23 | 9 | 17 27 | 16 31 | | ☐ | | * | | | | |
| 17 | 1 | 35 19 | 21 23 | 68 | 18 39 | 17 3 | | | ☐ | | | | | ☐ |
| 18 | 1 | 41 19 | 13 24 | 37 | 19 51 | 17 30 | ☉ Δ ♂ | Δ | | ☐ | * | * | | |
| 19 | 1 | 47 19 | 5 25 | 21 | 21 4 | 17 58 | | | Δ | | | * | * | |
| 20 | 1 | 53 18 | 57 26 | 5 | 22 17 | 18 9 | | | | | | | ☐ | ♂ Δ |
| 21 | 1 | 59 18 | 49 26 | 49 | 23 30 | 18 17 | | | | Δ | | | | |
| 22 | 2 | 6 18 | 41 27 | 33 | 24 43 | 18 18 | | | | | ☉ | | | |
| 23 | 2 | 12 18 | 33 28 | 17 | 25 56 | 18 10 | | ♂ | | | | | Δ | |
| 24 | 2 | 18 18 | 25 29 | 1 | 27 9 | 17 53 | | | ♂ | | | | | ♂ |
| 25 | 2 | 25 18 | 18 29 | 48 | 28 22 | 17 28 | | | | | | | Δ | |
| 26 | 2 | 31 18 | 11 0 | 30 | 29 35 | 16 51 | | | | | ♂ | | | |
| 27 | 2 | 38 18 | 4 1 | 15 | 0 48 | 16 7 | | | | | * | | | |
| 28 | 2 | 44 17 | 56 2 | 0 | 2 15 | 17 17 | ♀ ☐ ♂ | Δ | | | | ♂ | ☐ | |
| 29 | 2 | 51 17 | 49 3 | 45 | 3 15 | 14 16 | ♀ * h | | Δ | | ☐ | | | Δ |
| 30 | 2 | 58 17 | 42 3 | 30 | 4 28 | 12 10 | | | | | | | | |
| 31 | 2 | 5 17 | 35 4 | 15 | 5 41 | 11 54 | | ☐ | ☐ | Δ | | * | | ☐ |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 24 | 14 S 25 | 1 N 40 | 19 S 11 | 1 S 35 | 5 N 24 |
| 4 | 16 | 10 | 0 24 | 14 29 | 1 40 | 19 15 | 1 35 | 5 17 |
| 7 | 16 | 11 | 0 24 | 14 33 | 1 40 | 19 19 | 1 34 | 5 9 |
| 10 | 16 | 12 | 0 24 | 14 37 | 1 40 | 19 23 | 1 33 | 5 2 |
| 13 | 16 | 12 | 0 24 | 14 40 | 1 39 | 19 27 | 1 32 | 4 57 |
| 16 | 16 | 13 | 0 24 | 14 43 | 1 39 | 19 31 | 1 32 | 4 52 |
| 19 | 16 | 14 | 0 24 | 14 46 | 1 39 | 19 35 | 1 31 | 4 46 |
| 22 | 16 | 14 | 0 24 | 14 49 | 1 39 | 19 39 | 1 30 | 4 45 |
| 25 | 16 | 15 | 0 24 | 14 52 | 1 38 | 19 43 | 1 29 | 4 41 |
| 28 | 16 | 15 | 0 24 | 14 56 | 1 38 | 19 47 | 1 29 | 4 30 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 14 | 41 | 24 | 8 m 40 | 9 14 S 24 | 19 Ω 19 | 4 S 46 | 10 N 30 | 9 m 55 |
| 2 | Th | 14 | 45 | 20 | 9 40 | 19 14 48 | 1 m 54 | 4 10 | 6 55 | 9 59 |
| 3 | F | 14 | 49 | 17 | 10 40 | 81 15 | 2 14 51 | 3 20 | 2 54 | 10 3 |
| 4 | S | 14 | 53 | 18 | 11 40 | 44 15 | 21 28 13 | 2 18 | 1 S 24 | 10 6 |
| 5 | S | 14 | 57 | 10 | 12 41 | 0 15 | 40 12 = 0 | 1 6 | 5 46 | 10 10 |
| 6 | M | 15 | 1 | 6 | 13 41 | 17 15 | 58 26 13 | 0 N 12 | 9 57 | 10 14 |
| 7 | Tu | 15 | 5 | 3 | 14 41 | 37 16 | 16 10 m 47 | 1 81 | 13 38 | 10 18 |
| 8 | W | 15 | 8 | 59 | 15 41 | 58 16 | 33 25 38 | 2 45 | 16 30 | 10 22 |
| 9 | Th | 15 | 12 | 56 | 16 42 | 21 16 | 51 10 † 36 | 3 49 | 18 17 | 10 25 |
| 10 | F | 15 | 16 | 53 | 17 42 | 45 17 | 8 25 34 | 4 37 | 18 47 | 10 28 |
| 11 | S | 15 | 20 | 49 | 18 43 | 11 17 | 25 10 w 22 | 5 5 | 17 59 | 10 32 |
| 12 | S | 15 | 24 | 46 | 19 43 | 39 17 | 41 24 55 | 5 14 | 16 1 | 10 35 |
| 13 | M | 15 | 28 | 42 | 20 44 | 7 17 | 57 9 m 8 | 5 3 | 13 7 | 10 38 |
| 14 | Tu | 15 | 32 | 39 | 21 44 | 37 18 | 13 22 59 | 4 34 | 9 33 | 10 42 |
| 15 | W | 15 | 36 | 35 | 22 45 | 9 18 | 29 6 x 29 | 3 51 | 5 34 | 10 45 |
| 16 | Th | 15 | 40 | 32 | 23 45 | 42 18 | 44 19 38 | 2 57 | 1 24 | 10 48 |
| 17 | F | 15 | 44 | 28 | 24 46 | 15 18 | 59 2 r 31 | 1 54 | 2 N 45 | 10 52 |
| 18 | S | 15 | 48 | 25 | 25 46 | 51 19 | 13 15 9 | 0 48 | 6 42 | 10 56 |
| 19 | S | 15 | 52 | 22 | 26 47 | 27 19 | 27 27 34 | 0 S 20 | 10 18 | 11 0 |
| 20 | M | 15 | 56 | 18 | 27 48 | 5 19 | 41 9 x 49 | 1 26 | 13 25 | 11 4 |
| 21 | Tu | 16 | 0 | 15 | 28 48 | 44 19 | 55 21 57 | 2 27 | 15 54 | 11 9 |
| 22 | W | 16 | 4 | 11 | 29 49 | 24 20 | 8 3 Ω 58 | 3 21 | 17 40 | 11 13 |
| 23 | Th | 16 | 8 | 8 | 0 † 50 | 6 20 | 21 15 54 | 4 6 | 18 39 | 11 17 |
| 24 | F | 16 | 12 | 4 | 1 50 | 50 20 | 33 27 47 | 4 39 | 18 48 | 11 21 |
| 25 | S | 16 | 16 | 1 | 2 51 | 35 20 | 45 9 = 38 | 5 1 | 18 7 | 11 25 |
| 26 | S | 16 | 19 | 57 | 3 52 | 21 20 | 57 21 30 | 5 9 | 16 39 | 11 29 |
| 27 | M | 16 | 23 | 54 | 4 53 | 9 21 | 8 3 Ω 56 | 5 4 | 14 28 | 11 32 |
| 28 | Tu | 16 | 27 | 51 | 5 53 | 58 21 | 19 15 29 | 4 46 | 11 39 | 11 35 |
| 29 | W | 16 | 31 | 47 | 6 54 | 49 21 | 29 27 43 | 4 15 | 8 17 | 11 38 |
| 30 | Th | 16 | 35 | 44 | 7 55 | 41 21 | 39 10 m 12 | 3 81 | 4 30 | 11 41 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 S 32 | 24 S 54 | 1 N 89 | 1 S 14 | 0 S 40 | 15 S 39 | 23 Δ 3 |
| 4 | 1 32 | 24 47 | 1 41 | 2 39 | 0 N 22 | 13 27 | 22 54 |
| 7 | 1 31 | 24 38 | 1 43 | 4 4 | 1 16 | 11 37 | 22 44 |
| 10 | 1 30 | 24 25 | 1 43 | 5 29 | 1 55 | 10 32 | 22 35 |
| 13 | 1 29 | 24 12 | 1 44 | 6 51 | 2 17 | 10 18 | 22 25 |
| 16 | 1 28 | 23 54 | 1 43 | 8 15 | 2 24 | 10 46 | 22 16 |
| 19 | 1 27 | 23 36 | 1 42 | 9 35 | 2 21 | 11 44 | 22 6 |
| 22 | 1 26 | 23 14 | 1 40 | 10 54 | 2 10 | 13 1 | 21 57 |
| 25 | 1 25 | 22 52 | 1 38 | 12 12 | 1 54 | 14 27 | 21 47 |
| 28 | 1 24 | 22 26 | 1 35 | 13 26 | 1 35 | 15 57 | 21 38 |

| D
M | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------------------|-------|-----------------|-----------------|------------------|----------------|----------|----------|----------|----------|----------|
| | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 3 \nearrow 12.17 | 27 | 4 \nearrow 59 | 6 Δ 55 | 10 \nearrow 36 | ☉ ☿ ♀ | | | | Δ | |
| 2 | 3 18.17 | 20 | 5 44 | 8 8 | 9 \nearrow 16 | ☉ ☿ ☿ | | | | Δ | |
| 3 | 3 25.17 | 13 | 6 29 | 9 22 | 8 0 | ☿ ☿ ☿ | * | * | | | * |
| 4 | 3 32.17 | 6 | 7 14 | 10 36 | 6 47 | ☿ * ☿ | | | | | |
| 5 | 3 38.16 | 59 | 7 59 | 11 50 | 5 41 | | | * | ♂ | ☐ | ☿ |
| 6 | 3 45.16 | 52 | 8 44 | 13 4 | 4 42 | | | | | | |
| 7 | 3 52.16 | 46 | 9 29 | 14 18 | 3 49 | ♂ * ☿ | ☿ | ☿ | | * | ☿ |
| 8 | 3 58.16 | 40 | 10 14 | 15 32 | 3 16 | | | | | | |
| 9 | 4 5.16 | 34 | 11 0 | 16 46 | 2 38 | | | ☿ | Δ | * | * |
| 10 | 4 12.16 | 29 | 11 45 | 18 0 | 2 25 | | | | | | * |
| 11 | 4 19.16 | 20 | 12 31 | 19 14 | 2 D 22 | | * | | | ☐ | ☿ |
| 12 | 4 26.16 | 17 | 13 16 | 20 28 | 2 28 | | * | | | | ☐ |
| 13 | 4 33.16 | 12 | 14 2 | 21 42 | 2 44 | | | ☐ | * | | ☐ |
| 14 | 4 40.16 | 7 | 14 47 | 22 56 | 3 10 | | ☐ | Δ | | * | Δ |
| 15 | 4 47.16 | 2 | 15 33 | 24 10 | 3 45 | ♂ ☐ ♀ | | Δ | ☐ | | Δ |
| 16 | 4 54.15 | 57 | 16 19 | 25 25 | 4 29 | | Δ | | | * | |
| 17 | 5 1.15 | 52 | 17 5 | 26 39 | 5 19 | | | Δ | | | |
| 18 | 5 9.15 | 47 | 17 51 | 27 53 | 6 15 | | | | ☿ | ☐ | |
| 19 | 5 16.15 | 43 | 18 37 | 29 8 | 7 17 | | | | | | ♂ |
| 20 | 5 23.15 | 39 | 19 23 | 0 \nearrow 22 | 8 23 | | ♂ | | | | ♂ |
| 21 | 5 30.15 | 35 | 20 9 | 1 37 | 9 33 | | | | | Δ | |
| 22 | 5 37.15 | 31 | 20 55 | 2 52 | 10 47 | ♀ ☿ ☿ | ♂ | | ♂ | | |
| 23 | 5 44.15 | 28 | 21 41 | 4 6 | 12 4 | | | | | * | |
| 24 | 5 51.15 | 24 | 22 27 | 5 21 | 13 23 | | | | | | |
| 25 | 5 58.15 | 21 | 23 13 | 6 36 | 14 44 | | Δ | | ☐ | | Δ |
| 26 | 6 5.15 | 18 | 23 59 | 7 50 | 16 7 | | | | | ♂ | |
| 27 | 6 12.15 | 15 | 24 45 | 9 5 | 17 32 | | Δ | | Δ | | |
| 28 | 6 19.15 | 13 | 25 31 | 10 20 | 18 58 | ♀ ☿ ☿ | | ☐ | | Δ | ☐ |
| 29 | 6 26.15 | 10 | 26 17 | 11 35 | 20 25 | ☉ ☿ ♀ | | | | | |
| 30 | 6 33.15 | 8 | 27 3 | 12 50 | 21 53 | | ☐ | * | ☐ | | * |

DECEMBER XXXI DAYS.

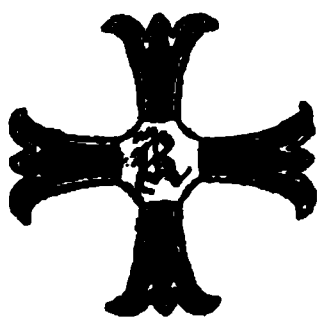
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ° | ' | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 N 24 | 14 S 59 | 1 N 38 | 19 S 50 | 1 S 27 | 4 N 37 |
| 4 | 16 | 15 | 0 24 | 15 2 | 1 38 | 19 54 | 1 27 | 4 36 |
| 7 | 16 | 16 | 0 24 | 15 6 | 1 38 | 19 58 | 1 26 | 4 36 |
| 10 | 16 | 16 | 0 24 | 15 9 | 1 38 | 20 2 | 1 25 | 4 36 |
| 13 | 16 | 16 | 0 24 | 15 12 | 1 37 | 20 4 | 1 24 | 4 37 |
| 16 | 16 | 16 | 0 24 | 15 14 | 1 37 | 20 8 | 1 23 | 4 39 |
| 19 | 16 | 17 | 0 24 | 15 17 | 1 37 | 20 11 | 1 22 | 4 42 |
| 22 | 16 | 17 | 0 24 | 15 19 | 1 37 | 20 14 | 1 22 | 4 45 |
| 25 | 16 | 17 | 0 24 | 15 21 | 1 37 | 20 17 | 1 20 | 4 49 |
| 28 | 16 | 17 | 0 24 | 15 24 | 1 37 | 20 20 | 1 20 | 4 55 |
| 31 | 16 | 17 | 0 24 | 15 27 | 1 37 | 20 22 | 1 20 | 5 1 |

| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♄
Long.
° ' " | ♄
Lat.
° ' " | ♄
Declin.
° ' " | ♃
Long.
° ' " |
|--------|--------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| 1 | F | 16 39 40 | 8 56 35 | 21 S 49 | 23 m 2 | 2 S 35 | 0 N 24 | 11 m 44 |
| 2 | S | 16 43 37 | 9 57 30 | 21 58 | 6 16 | 1 30 | 3 S 51 | 11 48 |
| 3 | S | 16 47 33 | 10 58 26 | 22 7 19 | 57 | 0 17 | 8 4 | 11 51 |
| 4 | M | 16 51 30 | 11 59 24 | 22 15 4 m | 7 | 0 N 59 | 11 59 | 11 54 |
| 5 | Tu | 16 55 26 | 13 0 23 | 22 23 18 | 45 | 2 14 | 15 16 | 11 57 |
| 6 | W | 16 59 23 | 14 1 23 | 22 30 3 1 | 45 | 3 21 | 17 38 | 12 1 |
| 7 | Th | 17 3 20 | 15 2 24 | 22 37 19 | 0 | 4 15 | 18 46 | 12 4 |
| 8 | F | 17 7 16 | 16 3 26 | 22 44 4 w | 18 | 4 50 | 18 33 | 12 7 |
| 9 | S | 17 11 13 | 17 4 29 | 22 50 19 | 29 | 5 5 | 17 0 | 12 10 |
| 10 | S | 17 15 9 | 18 5 33 | 22 56 4 m | 22 | 4 59 | 14 20 | 12 14 |
| 11 | M | 17 19 6 | 19 6 37 | 23 1 18 | 51 | 4 34 | 10 51 | 12 17 |
| 12 | Tu | 17 23 2 | 20 7 41 | 23 6 2 x | 52 | 3 58 | 6 51 | 12 20 |
| 13 | W | 17 27 59 | 21 8 46 | 23 10 16 | 25 | 2 59 | 2 37 | 12 23 |
| 14 | Th | 17 30 55 | 22 9 52 | 23 14 29 | 32 | 1 58 | 1 N 37 | 12 26 |
| 15 | F | 17 34 52 | 23 10 57 | 23 17 12 | 17 | 0 53 | 5 40 | 12 29 |
| 16 | S | 17 38 49 | 24 12 4 | 23 20 24 | 44 | 0 S 13 | 9 23 | 12 32 |
| 17 | S | 17 42 45 | 25 13 10 | 23 23 6 s | 58 | 1 18 | 12 37 | 12 35 |
| 18 | M | 17 46 42 | 26 14 16 | 23 24 19 | 2 | 2 18 | 15 17 | 12 38 |
| 19 | Tu | 17 50 38 | 27 15 23 | 23 26 1 | 0 | 3 11 | 17 16 | 12 41 |
| 20 | W | 17 54 35 | 28 16 30 | 23 27 12 | 54 | 3 55 | 18 29 | 12 45 |
| 21 | Th | 17 58 31 | 29 17 38 | 23 28 24 | 46 | 4 29 | 18 53 | 12 48 |
| 22 | F | 18 2 28 | 0 w 18 46 | 23 28 6 s | 39 | 4 51 | 18 27 | 12 51 |
| 23 | S | 18 6 25 | 1 19 54 | 23 27 18 | 32 | 5 1 | 17 13 | 12 54 |
| 24 | S | 18 10 21 | 2 21 3 | 23 26 0 | 28 | 4 57 | 15 14 | 12 57 |
| 25 | M | 18 14 18 | 3 22 12 | 23 25 12 | 28 | 4 40 | 12 35 | 13 0 |
| 26 | Tu | 18 18 14 | 4 23 22 | 23 23 24 | 35 | 4 11 | 9 24 | 13 3 |
| 27 | W | 18 22 11 | 5 24 32 | 23 21 6 m | 50 | 3 29 | 5 46 | 13 5 |
| 28 | Th | 18 26 7 | 6 25 42 | 23 18 19 | 19 | 2 37 | 1 50 | 13 8 |
| 29 | F | 18 30 4 | 7 26 53 | 23 15 2 | 4 | 1 36 | 2 S 17 | 13 11 |
| 30 | S | 18 34 0 | 8 28 4 | 23 11 15 | 9 | 0 28 | 6 25 | 13 13 |
| 31 | S | 18 37 57 | 9 29 16 | 23 7 28 | 40 | 0 N 43 | 10 20 | 13 15 |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1810.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

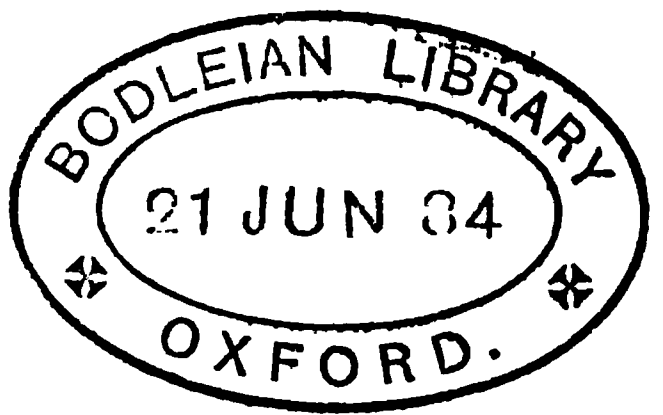
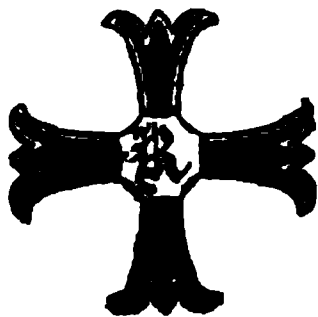
Price One Shilling.

(Alm.) 939 2.1.1

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1810.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D.
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|---------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 24 | 15 S 28 | 1 N 38 | 20 S 24 | 1 S 18 | 5 N 2 |
| 4 | 16 | 15 | 0 24 | 15 30 | 1 38 | 20 27 | 1 17 | 5 8 |
| 7 | 16 | 16 | 0 24 | 15 32 | 1 38 | 20 29 | 1 16 | 5 15 |
| 10 | 16 | 16 | 0 24 | 15 34 | 1 38 | 20 31 | 1 15 | 5 23 |
| 13 | 16 | 17 | 0 24 | 15 36 | 1 38 | 20 34 | 1 14 | 5 30 |
| 16 | 16 | 17 | 0 24 | 15 37 | 1 38 | 20 36 | 1 14 | 5 39 |
| 19 | 16 | 17 | 0 24 | 15 38 | 1 38 | 20 38 | 1 13 | 5 48 |
| 22 | 16 | 18 | 0 24 | 15 39 | 1 38 | 20 40 | 1 12 | 5 58 |
| 25 | 16 | 18 | 0 24 | 15 40 | 1 39 | 20 42 | 1 11 | 6 8 |
| 28 | 16 | 18 | 0 24 | 15 41 | 1 39 | 20 44 | 1 11 | 6 18 |
| 31 | 16 | 18 | 0 24 | 15 42 | 1 39 | 20 46 | 1 10 | 6 29 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 18 41 54 | 10 W 30 27 | 23 S 3 | 12 M 38 | 1 N 54 | 18 S 50 | 13 M 17 |
| 2 | Tu | 18 45 50 | 11 31 40 | 22 58 | 27 4 | 3 0 | 16 36 | 13 20 |
| 3 | W | 18 49 47 | 12 32 52 | 22 52 | 11 f 55 | 3 56 | 18 20 | 13 22 |
| 4 | Th | 18 53 43 | 13 34 4 | 22 46 | 27 6 | 4 37 | 18 49 | 13 24 |
| 5 | F | 18 57 40 | 14 35 16 | 22 40 | 12 W 26 | 4 58 | 17 56 | 13 27 |
| 6 | S | 19 1 36 | 15 36 28 | 22 33 | 27 44 | 4 57 | 15 46 | 13 29 |
| 7 | S | 19 5 33 | 16 37 40 | 22 26 | 12 M 49 | 4 36 | 12 34 | 13 31 |
| 8 | M | 19 9 30 | 17 38 51 | 22 18 | 27 31 | 3 57 | 8 38 | 13 33 |
| 9 | Tu | 19 13 26 | 18 40 2 | 22 10 | 11 x 44 | 3 4 | 4 20 | 13 35 |
| 10 | W | 19 17 23 | 19 41 12 | 22 1 | 25 27 | 2 2 | 0 N 3 | 13 37 |
| 11 | Th | 19 21 19 | 20 42 22 | 21 52 | 8 r 40 | 0 55 | 4 17 | 13 39 |
| 12 | F | 19 25 16 | 21 43 30 | 21 42 | 21 28 | 0 8 | 12 8 | 13 41 |
| 13 | S | 19 29 12 | 22 44 38 | 21 33 | 3 s 54 | 1 17 | 11 38 | 13 43 |
| 14 | S | 19 33 9 | 23 45 45 | 21 22 | 16 5 | 2 17 | 14 29 | 13 45 |
| 15 | M | 19 37 5 | 24 46 52 | 21 11 | 28 5 | 2 10 | 16 40 | 13 47 |
| 16 | Tu | 19 41 2 | 25 47 57 | 21 0 | 9 □ 58 | 3 54 | 18 6 | 13 49 |
| 17 | W | 19 44 58 | 26 49 2 | 20 49 | 21 49 | 4 28 | 18 45 | 13 50 |
| 18 | Th | 19 48 55 | 27 50 5 | 20 37 | 3 ∞ 40 | 4 50 | 18 35 | 13 52 |
| 19 | F | 19 52 52 | 28 51 8 | 20 25 | 15 34 | 4 59 | 17 36 | 13 54 |
| 20 | S | 19 56 48 | 29 52 10 | 20 12 | 27 32 | 4 56 | 15 51 | 13 55 |
| 21 | S | 20 0 45 | 0 M 53 | 11 59 | 9 ∞ 35 | 4 39 | 13 23 | 13 56 |
| 22 | M | 20 4 41 | 1 54 12 | 19 45 | 21 45 | 4 9 | 10 20 | 13 57 |
| 23 | Tu | 20 8 38 | 2 55 12 | 19 31 | 4 M 2 | 3 28 | 6 49 | 13 59 |
| 24 | W | 20 12 34 | 3 56 11 | 19 17 | 16 27 | 2 36 | 2 57 | 14 0 |
| 25 | Th | 20 16 31 | 4 57 9 | 19 8 | 29 8 | 1 35 | 1 8 5 | 14 2 |
| 26 | F | 20 20 27 | 5 58 7 | 18 48 | 11 ∆ 53 | 0 29 | 5 9 | 14 3 |
| 27 | S | 20 24 24 | 6 59 4 | 18 33 | 24 59 | 0 N 40 | 9 3 | 14 4 |
| 28 | S | 20 28 21 | 8 0 0 | 18 17 | 8 M 24 | 1 49 | 12 35 | 14 6 |
| 29 | M | 20 32 17 | 9 0 56 | 18 1 | 22 11 | 2 54 | 15 32 | 14 7 |
| 30 | Tu | 20 36 14 | 10 1 51 | 17 45 | 6 f 21 | 3 50 | 17 37 | 14 8 |
| 31 | W | 20 40 10 | 11 2 45 | 17 28 | 20 53 | 4 33 | 18 37 | 14 9 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 18 7 | 15 8 14 | 0 N 26 | 22 S 50 | 1 S 52 | 24 S 49 | 19 ♌ 49 |
| 4 | 1 5 | 14 25 | 0 18 | 23 7 | 2 0 | 24 26 | 19 39 |
| 7 | 1 3 | 13 37 | 0 11 | 23 17 | 2 5 | 23 49 | 19 30 |
| 10 | 1 1 | 12 46 | 0 3 | 23 22 | 2 6 | 22 57 | 19 20 |
| 13 | 0 59 | 11 55 | 0 8 4 | 23 18 | 2 4 | 21 51 | 19 11 |
| 16 | 0 57 | 11 2 | 0 11 | 23 7 | 1 56 | 20 31 | 19 1 |
| 19 | 0 55 | 10 9 | 0 19 | 22 53 | 1 44 | 18 58 | 18 52 |
| 22 | 0 53 | 9 15 | 0 26 | 22 30 | 1 25 | 17 13 | 18 42 |
| 25 | 0 51 | 8 21 | 0 33 | 22 8 | 0 58 | 15 19 | 18 33 |
| 28 | 0 49 | 7 27 | 0 39 | 21 27 | 0 25 | 13 22 | 18 23 |
| 31 | 0 47 | 6 33 | 0 46 | 20 48 | 0 N 16 | 11 28 | 18 14 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|-----|---|-----|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 10 14 | 15 48 | 22 0 | 22 54 | 11 37 | | * ☉ | | | | | * |
| 2 | 10 21 | 15 52 | 22 47 | 24 9 | 13 14 | ☿ * ☿ | | | | ☐ | | |
| 3 | 10 27 | 15 57 | 23 34 | 25 24 | 14 52 | | | | ☉ Δ | | * | ☉ |
| 4 | 10 33 | 16 2 | 24 20 | 26 40 | 16 30 | ☿ ☐ ♈ | ☉ | * | | | * | ☉ |
| 5 | 10 40 | 16 7 | 25 7 | 27 55 | 18 9 | | ☉ | * | | ☐ | | ☉ |
| 6 | 10 46 | 16 12 | 25 54 | 29 10 | 19 48 | | | | | | | |
| 7 | 10 52 | 16 18 | 26 40 | 0 26 | 21 28 | ☉ ☐ ♈ | | ☐ | * | * | ☉ | |
| 8 | 10 58 | 16 23 | 27 27 | 1 41 | 23 7 | | | | | | ☉ * | |
| 9 | 11 5 | 16 29 | 28 14 | 2 56 | 24 47 | | | Δ | ☐ | | | |
| 10 | 11 11 | 16 35 | 29 1 | 4 11 | 26 27 | | * | | | | | * |
| 11 | 11 17 | 16 41 | 29 48 | 5 26 | 28 8 | | | | Δ | | | ☐ |
| 12 | 11 23 | 16 47 | 0 35 | 6 41 | 29 49 | | ☐ | | | ☉ | | |
| 13 | 11 29 | 16 54 | 1 22 | 7 57 | 1 31 | | | | | | * | Δ |
| 14 | 11 35 | 17 0 | 2 9 | 9 12 | 3 12 | | | ☿ | | | | ☐ |
| 15 | 11 41 | 17 7 | 2 56 | 10 27 | 4 53 | | Δ | | | | ☐ | |
| 16 | 11 47 | 17 14 | 3 43 | 11 43 | 6 35 | | | | ☿ | | | Δ |
| 17 | 11 52 | 17 21 | 4 30 | 12 58 | 8 16 | ☿ * ☿ | | | | * | | |
| 18 | 11 58 | 17 28 | 5 17 | 14 13 | 9 57 | | | | | | Δ | |
| 19 | 12 3 | 17 36 | 6 3 | 15 29 | 11 39 | ☿ * ♈ | ☉ | Δ | | ☐ | | ☿ |
| 20 | 12 9 | 17 43 | 6 50 | 16 44 | 13 20 | ☿ ☐ ☿ | ☉ | | | | | |
| 21 | 12 14 | 17 51 | 7 37 | 17 59 | 14 59 | ☿ ☐ ♈ | | ☐ | Δ | | | ☿ |
| 22 | 12 19 | 17 59 | 8 23 | 19 14 | 16 37 | | | | | Δ | | |
| 23 | 12 25 | 18 7 | 9 10 | 20 29 | 18 13 | ☿ * ♈ | | | | | ☿ | |
| 24 | 12 30 | 18 15 | 9 57 | 21 44 | 19 47 | | | * | ☐ | | | Δ |
| 25 | 12 35 | 18 24 | 10 43 | 23 0 | 21 20 | | Δ | | | | | |
| 26 | 12 40 | 18 32 | 11 30 | 24 15 | 22 50 | | | | * | | | |
| 27 | 12 45 | 18 41 | 12 16 | 25 30 | 24 17 | | | | | ☿ | | ☐ |
| 28 | 12 50 | 18 50 | 13 3 | 26 46 | 25 41 | ☿ ☐ ♈ | ☐ | ☉ | | | Δ | Δ |
| 29 | 12 55 | 18 59 | 13 49 | 28 1 | 27 0 | ☿ Δ ☿ | | | | | | * |
| 30 | 13 0 | 19 8 | 14 36 | 29 16 | 28 13 | | * | | ☉ | | | ☐ |
| 31 | 13 5 | 19 17 | 15 22 | 0 31 | 29 20 | | | | | Δ | ☐ | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 N 24 | 15 8 43 | 1 N 39 | 20 8 46 | 1 8 9 | 6 N 33 |
| 4 | 16 | 15 | 0 24 | 15 44 | 1 39 | 20 47 | 1 8 | 6 44 |
| 7 | 16 | 14 | 0 24 | 15 45 | 1 39 | 20 49 | 1 8 | 6 56 |
| 10 | 16 | 14 | 0 24 | 15 45 | 1 39 | 20 50 | 1 8 | 7 8 |
| 18 | 16 | 13 | 0 24 | 15 45 | 1 40 | 20 51 | 1 7 | 7 21 |
| 16 | 16 | 13 | 0 24 | 15 45 | 1 40 | 20 52 | 1 7 | 7 34 |
| 19 | 16 | 11 | 0 24 | 15 45 | 1 41 | 20 53 | 1 6 | 7 47 |
| 22 | 16 | 11 | 0 25 | 15 45 | 1 41 | 20 54 | 1 6 | 8 0 |
| 25 | 16 | 10 | 0 25 | 15 44 | 1 41 | 20 54 | 1 4 | 8 14 |
| 28 | 16 | 10 | 0 25 | 15 43 | 1 41 | 20 55 | 1 4 | 8 28 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 20 44 7 | 12 3 38 | 17 8 12 | 5 44 | 4 N 57 | 18 8 23 | 14 10 |
| 2 | F | 20 48 4 | 13 4 30 | 16 54 | 20 47 | 5 2 | 16 53 | 14 11 |
| 3 | S | 20 52 1 | 14 5 21 | 16 37 | 5 52 | 4 47 | 14 11 | 14 12 |
| 4 | S | 20 55 58 | 15 6 11 | 16 19 | 20 49 | 4 11 | 10 36 | 14 13 |
| 5 | M | 20 59 55 | 16 6 59 | 16 1 | 5 29 | 3 20 | 6 25 | 14 14 |
| 6 | Tu | 21 3 52 | 17 7 46 | 15 43 | 19 46 | 2 17 | 1 58 | 14 14 |
| 7 | W | 21 7 49 | 18 8 32 | 15 24 | 3 34 | 1 8 | 2 N 27 | 14 15 |
| 8 | Th | 21 11 46 | 19 9 16 | 15 6 | 16 56 | 0 8 | 3 8 | 14 15 |
| 9 | F | 21 15 43 | 20 9 58 | 14 17 | 29 49 | 1 12 | 10 18 | 14 16 |
| 10 | S | 21 19 39 | 21 10 39 | 14 27 | 12 20 | 2 15 | 18 26 | 14 16 |
| 11 | | | 22 11 18 | 14 8 | 24 34 | 3 10 | 15 51 | 14 16 |
| 12 | | | 23 11 55 | 13 48 | 6 35 | 3 56 | 17 33 | 14 16 |
| 13 | | | 24 12 31 | 13 28 | 18 29 | 4 32 | 18 27 | 14 17 |
| 14 | | | 25 13 4 | 13 8 | 0 20 | 4 55 | 18 33 | 14 17 |
| 15 | | | 26 13 36 | 12 47 | 12 11 | 5 6 | 17 50 | 14 17 |
| 16 | F | 21 43 19 | 27 14 6 | 12 27 | 24 8 | 5 3 | 16 20 | 14 17 |
| 17 | S | 21 47 16 | 28 14 34 | 12 6 | 6 11 | 4 47 | 14 6 | 14 17 |
| 18 | S | 21 51 12 | 29 15 1 | 11 45 | 18 23 | 4 18 | 11 14 | 14 17 |
| 19 | M | 21 55 8 | 0 15 25 | 11 24 | 0 45 | 3 37 | 7 50 | 14 16 |
| 20 | Tu | 21 59 6 | 1 15 49 | 11 2 | 13 17 | 2 44 | 4 3 | 14 16 |
| 21 | W | 22 3 1 | 2 16 10 | 10 41 | 26 0 | 1 42 | 0 2 | 14 16 |
| 22 | Th | 22 6 58 | 3 16 30 | 10 19 | 3 54 | 0 34 | 4 3 | 14 16 |
| 23 | F | 22 10 54 | 4 16 49 | 9 57 | 22 0 | 0 N 37 | 8 0 | 14 16 |
| 24 | S | 22 14 51 | 5 17 6 | 9 35 | 5 18 | 1 47 | 11 37 | 14 15 |
| 25 | S | 22 18 48 | 6 17 21 | 9 13 | 18 51 | 2 52 | 14 41 | 14 15 |
| 26 | M | 22 22 44 | 7 17 35 | 8 60 | 2 34 | 3 49 | 16 57 | 14 15 |
| 27 | Tu | 22 26 41 | 8 17 48 | 8 23 | 16 40 | 4 34 | 18 15 | 14 14 |
| 28 | W | 22 30 37 | 9 17 59 | 8 5 | 0 57 | 5 2 | 18 26 | 14 14 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 08 48 | 68 11 | 08 48 | 20 34 | 0 N 31 | 10 8 53 | 18 11 |
| 2 | 0 44 | 5 14 | 0 55 | 19 45 | 1 20 | 9 20 | 18 1 |
| 3 | 0 42 | 4 18 | 0 59 | 18 54 | 2 10 | 8 16 | 17 51 |
| 4 | 0 40 | 3 21 | 1 4 | 17 54 | 2 55 | 7 51 | 17 42 |
| 5 | 0 38 | 2 24 | 1 9 | 16 54 | 3 28 | 6 7 | 17 32 |
| 6 | 0 36 | 1 27 | 1 12 | 15 46 | 3 43 | 5 58 | 17 23 |
| 7 | 0 34 | 0 31 | 1 16 | 14 37 | 3 38 | 10 10 | 17 13 |
| 8 | 0 31 | 0 N 29 | 1 19 | 13 21 | 3 15 | 11 25 | 17 4 |
| 9 | 0 29 | 1 23 | 1 22 | 12 6 | 2 41 | 12 33 | 16 54 |
| 10 | 0 28 | 2 20 | 1 24 | 10 45 | 2 1 | 13 25 | 16 46 |

| D
M | h | | ♈ | | ♉ | | ♊ | | ♋ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------------|-----|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 13 10 | 19 27 | 16 9 | 1 47 | 0 20 | | | | | | | | | | | | * |
| 2 | 13 19 | 36 16 | 55 3 | 2 18 | 1 18 | ☉ * ♈ | | * | | ☐ * | | | | | | | |
| 3 | 13 19 | 46 17 | 42 4 | 17 1 | 58 | ☉ ☐ ♈ | | | | | | ♈ | ☐ * | | | | ♈ |
| 4 | 13 24 | 56 18 | 28 5 | 32 2 | 34 | | | | | | | ♈ | ☐ * | | | | |
| 5 | 13 28 | 5 19 | 15 6 | 47 3 | 0 | | | | | | | | | | | | ♈ |
| 6 | 13 33 | 20 15 | 20 1 | 8 2 | 3 16 | | | | | | | | Δ | ☐ | | ♈ | |
| 7 | 13 37 | 25 20 | 47 9 | 18 3 | 21 | | | | | | | | | | | | * |
| 8 | 13 42 | 20 35 | 21 33 | 10 33 | 3 16 | | | * | | Δ | ♈ | | | | | | |
| 9 | 13 46 | 20 46 | 22 20 | 11 48 | 3 0 | | | | | | | | | | | | * |
| 10 | 13 50 | 20 56 | 23 6 | 13 3 | 33 | ☉ * ♈ | | | ♈ | | | | | | | ☐ | |
| 11 | 13 54 | 21 7 | 23 53 | 14 18 | 1 58 | ♀ ☐ ♈ | | | | | | ☐ | | | | | * |
| 12 | 13 58 | 21 17 | 24 39 | 15 33 | 1 11 | ♀ * ♈ | | | | | | | | | | | ☐ |
| 13 | 14 2 | 23 25 | 25 16 | 49 0 | 18 | | | | | | | | | ♈ | * | Δ | |
| 14 | 14 5 | 23 39 | 26 11 | 18 4 | 29 19 | | | | | | | Δ | | | | ☐ | Δ |
| 15 | 14 9 | 23 50 | 26 57 | 19 19 | 28 16 | | | | | | | | Δ | | | | |
| 16 | 14 13 | 22 1 | 27 43 | 20 31 | 27 9 | ☉ ♀ ♈ | | | | | | | | | | ☐ | Δ |
| 17 | 14 16 | 22 12 | 28 29 | 21 40 | 26 1 | ♀ * ♈ | | | | | | | | | | | |
| 18 | 14 20 | 22 24 | 29 15 | 23 4 | 24 51 | | | | | | | | ☐ | Δ | Δ | | ♈ |
| 19 | 14 23 | 22 35 | 0 1 | 24 20 | 23 49 | ♀ ♀ ♈ | | | | | | ♈ | | | | | |
| 20 | 14 26 | 22 46 | 0 46 | 25 35 | 22 48 | ♀ * ♈ | | | | | | * | ☐ | | | | |
| 21 | 14 29 | 22 56 | 1 32 | 26 60 | 21 52 | | | | | | | | | | | ♈ | |
| 22 | 14 32 | 23 10 | 2 18 | 28 5 | 21 1 | | | | | | | | | * | | | |
| 23 | 14 35 | 23 21 | 3 3 | 29 20 | 20 17 | | | | | | | | | | ♈ | | Δ |
| 24 | 14 38 | 23 33 | 3 49 | 0 35 | 19 40 | | | | | | | Δ | | | | Δ | |
| 25 | 14 41 | 23 45 | 4 35 | 1 50 | 19 9 | | | | | | | | ☐ | | | | ☐ |
| 26 | 14 44 | 23 57 | 5 21 | 3 5 | 18 44 | | | | | | | ☐ | | | | Δ | ☐ |
| 27 | 14 46 | 24 9 | 6 7 | 4 20 | 18 28 | | | | | | | | | | | | * |
| 28 | 14 49 | 24 21 | 6 53 | 5 35 | 18 22 | | | | | | | | | Δ | ☐ | * | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 25 | 15 S 43 | 1 N 42 | 20 S 55 | 1 S 4 | 8 N 32 |
| 4 | 16 | 9 | 0 25 | 15 42 | 1 42 | 20 56 | 1 4 | 8 46 |
| 7 | 16 | 8 | 0 25 | 15 41 | 1 42 | 20 56 | 1 3 | 9 0 |
| 10 | 16 | 8 | 0 25 | 15 41 | 1 42 | 20 56 | 1 3 | 9 14 |
| 13 | 16 | 7 | 0 25 | 15 40 | 1 43 | 20 56 | 1 2 | 9 29 |
| 16 | 16 | 6 | 0 25 | 15 39 | 1 43 | 20 56 | 1 2 | 9 44 |
| 19 | 16 | 5 | 0 25 | 15 38 | 1 44 | 20 56 | 1 1 | 9 59 |
| 22 | 16 | 4 | 0 25 | 15 37 | 1 44 | 20 55 | 1 1 | 10 13 |
| 25 | 16 | 3 | 0 25 | 15 36 | 1 44 | 20 55 | 1 0 | 10 28 |
| 28 | 16 | 3 | 0 25 | 15 34 | 1 44 | 20 54 | 1 0 | 10 42 |
| 31 | 16 | 2 | 0 25 | 15 32 | 1 44 | 20 54 | 1 0 | 10 56 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 22 34 34 | 10 18 9 | 7 S 43 | 15 25 | 5 N 11 | 17 S 25 | 14 13 |
| 2 | F | 22 38 30 | 11 18 17 | 7 20 | 0 1 | 5 1 | 15 16 | 14 12 |
| 3 | S | 22 42 27 | 12 18 23 | 6 57 | 14 38 | 4 31 | 12 8 | 14 11 |
| 4 | S | 22 46 23 | 13 18 28 | 6 34 | 29 12 | 3 44 | 8 16 | 14 11 |
| 5 | M | 22 50 20 | 14 18 30 | 6 11 | 13 33 | 2 43 | 3 58 | 14 10 |
| 6 | Tu | 22 54 17 | 15 18 31 | 5 48 | 27 37 | 1 33 | 0 N 28 | 14 9 |
| 7 | W | 22 58 13 | 16 18 30 | 5 24 | 11 19 | 0 19 | 4 47 | 14 8 |
| 8 | Th | 23 2 10 | 17 18 27 | 5 1 | 24 39 | 0 S 54 | 8 43 | 14 7 |
| 9 | F | 23 6 6 | 18 18 22 | 4 38 | 7 35 | 2 2 | 12 8 | 14 6 |
| 10 | S | 23 10 3 | 19 18 14 | 4 14 | 20 10 | 3 2 | 14 53 | 14 5 |
| 11 | S | 23 13 59 | 20 18 5 | 3 51 | 2 28 | 3 53 | 16 52 | 14 4 |
| 12 | M | 23 17 56 | 21 17 53 | 3 27 | 14 33 | 4 32 | 18 4 | 14 3 |
| 13 | Tu | 23 21 52 | 22 17 39 | 3 4 | 26 29 | 4 59 | 18 26 | 14 2 |
| 14 | W | 23 25 50 | 23 17 22 | 2 40 | 8 21 | 5 13 | 18 0 | 14 0 |
| 15 | Th | 23 29 46 | 24 17 3 | 2 16 | 20 14 | 5 13 | 16 46 | 13 59 |
| 16 | F | 23 33 42 | 25 16 42 | 1 53 | 2 13 | 5 0 | 14 48 | 13 58 |
| 17 | S | 23 37 39 | 26 16 19 | 1 29 | 14 20 | 4 34 | 12 10 | 13 56 |
| 18 | S | 23 41 35 | 27 15 53 | 1 5 | 26 39 | 3 55 | 8 58 | 13 55 |
| 19 | M | 23 45 32 | 28 15 25 | 0 42 | 9 11 | 3 4 | 5 18 | 13 54 |
| 20 | Tu | 23 49 28 | 29 14 55 | 0 18 | 21 59 | 2 2 | 1 19 | 13 52 |
| 21 | W | 23 53 25 | 0 14 23 | 0 N 6 | 5 2 | 0 53 | 2 S 49 | 13 50 |
| 22 | Th | 23 57 21 | 1 13 49 | 0 29 | 18 19 | 0 N 20 | 6 52 | 13 48 |
| 23 | F | 0 1 18 | 2 13 13 | 0 53 | 1 49 | 1 34 | 10 39 | 13 46 |
| 24 | S | 0 5 14 | 3 12 36 | 1 17 | 15 32 | 2 43 | 13 55 | 13 44 |
| 25 | S | 0 9 11 | 4 11 56 | 1 40 | 29 25 | 3 43 | 16 25 | 13 42 |
| 26 | M | 0 13 8 | 5 11 15 | 2 4 | 13 26 | 4 31 | 17 57 | 13 40 |
| 27 | Tu | 0 17 4 | 6 10 32 | 2 27 | 27 34 | 5 3 | 18 24 | 13 39 |
| 28 | W | 0 21 1 | 7 9 47 | 2 51 | 11 46 | 5 16 | 17 41 | 13 37 |
| 29 | Th | 0 24 57 | 8 9 1 | 3 14 | 26 0 | 5 11 | 15 53 | 13 35 |
| 30 | F | 0 28 54 | 9 8 13 | 3 37 | 10 14 | 4 46 | 18 6 | 13 34 |
| 31 | S | 0 32 50 | 10 7 23 | 4 1 | 24 24 | 4 4 | 9 34 | 13 32 |

1810.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

7

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 08 27 | 2 N 37 | 1 S 24 | 10 S 19 | 1 N 47 | 13 S 39 | 16 42 |
| 4 | 0 24 | 8 32 | 1 25 | 8 54 | 1 6 | 14 8 | 16 32 |
| 7 | 0 22 | 4 28 | 1 26 | 7 30 | 0 28 | 14 20 | 16 23 |
| 10 | 0 20 | 5 23 | 1 26 | 6 0 | 0 S 8 | 14 15 | 16 18 |
| 13 | 0 18 | 6 17 | 1 25 | 4 34 | 0 40 | 13 55 | 16 8 |
| 16 | 0 16 | 7 10 | 1 24 | 3 3 | 1 7 | 13 20 | 15 54 |
| 19 | 0 14 | 8 3 | 1 23 | 1 33 | 1 31 | 12 32 | 15 44 |
| 22 | 0 12 | 8 54 | 1 21 | 0 2 | 1 51 | 11 30 | 15 35 |
| 25 | 0 10 | 9 46 | 1 18 | 1 N 29 | 2 6 | 10 16 | 15 25 |
| 28 | 0 8 | 10 38 | 1 15 | 3 33 | 2 17 | 8 50 | 15 16 |
| 31 | 0 6 | 11 28 | 1 11 | 5 0 | 2 24 | 7 12 | 15 6 |

| D
M | ♂ | | ♀ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|-----|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 14 51 | 24 33 | 7 38 | 6 50 | 18 20 | | | * | * | | | | |
| 2 | 14 53 | 24 45 | 8 24 | 8 5 | 18 23 | | | | | ☐ | | * | ♂ |
| 3 | 14 55 | 24 58 | 9 9 | 9 20 | 18 33 | | | | ☐ | * | | * | ♂ |
| 4 | 14 57 | 25 10 | 9 54 | 10 35 | 18 51 | | | | | * | | | |
| 5 | 14 59 | 25 23 | 10 40 | 11 50 | 19 16 | ☉ Δ ☿ | ☉ Δ ☿ | ☉ | Δ | ☐ | | ♂ | |
| 6 | 15 1 | 25 35 | 11 25 | 13 5 | 19 42 | ☉ ☐ ♀ | | | | | | | |
| 7 | 15 3 | 25 48 | 12 10 | 14 19 | 20 11 | ♀ Δ ☿ | | | | Δ | | ♂ | |
| 8 | 15 5 | 26 1 | 12 55 | 15 34 | 20 46 | ♀ ☐ ♀ | | | | | ♂ | | * |
| 9 | 15 6 | 26 14 | 13 41 | 16 49 | 21 26 | | | | | | | | |
| 10 | 15 8 | 26 27 | 14 26 | 18 4 | 22 11 | | | * | ♂ | | | * | ☐ |
| 11 | 15 9 | 26 40 | 15 11 | 19 19 | 22 59 | ♂ Δ ♀ | | | | | | | |
| 12 | 15 11 | 26 53 | 15 56 | 20 34 | 23 50 | | | | | ♂ | | * | |
| 13 | 15 12 | 27 6 | 16 41 | 21 48 | 24 43 | | | ☐ | | | * | | ☐ Δ |
| 14 | 15 13 | 27 19 | 17 26 | 23 3 | 25 39 | | | | Δ | | | | |
| 15 | 15 14 | 27 32 | 18 11 | 24 18 | 26 39 | ☉ ☉ ♀ | ☉ | ☉ | | | | ☐ Δ | |
| 16 | 15 15 | 27 45 | 18 56 | 25 32 | 27 42 | ♀ * ♀ | | | | | | | |
| 17 | 15 16 | 27 59 | 19 41 | 26 47 | 28 47 | | | | ☐ | Δ | | Δ | |
| 18 | 15 17 | 28 12 | 20 26 | 28 2 | 29 54 | | | | | | Δ | | ♂ |
| 19 | 15 18 | 28 25 | 21 10 | 29 16 | 1 * 3 | | | * | ☐ | | | | |
| 20 | 15 18 | 28 39 | 21 55 | 0 31 | 2 14 | | | | | | | | |
| 21 | 15 19 | 28 52 | 22 39 | 1 46 | 3 28 | | | ♂ | | | | ♂ | |
| 22 | 15 19 | 29 6 | 23 24 | 8 0 | 4 44 | | | | | * | | ♂ | |
| 23 | 15 19 | 29 19 | 24 8 | 4 15 | 6 2 | | | | | | ♂ | | Δ |
| 24 | 15 19 | 29 33 | 24 53 | 5 30 | 7 21 | | | | ♂ | | | | |
| 25 | 15 19 | 29 47 | 25 37 | 6 44 | 8 42 | | | Δ | | | | | |
| 26 | 15 19 | 0 8 | 26 22 | 7 59 | 10 4 | | | | | ♂ | | Δ | ☐ |
| 27 | 15 19 | 0 14 | 27 6 | 9 13 | 11 28 | | | | | | Δ | Δ | |
| 28 | 15 19 | 0 28 | 27 50 | 10 27 | 12 54 | ♀ Δ ☿ | ☐ * | | | | | ☐ * | |
| 29 | 15 19 | 0 42 | 28 35 | 11 42 | 14 21 | ♀ ☐ ♀ | | | | | ☐ | ☐ | * |
| 30 | 15 18 | 0 56 | 29 19 | 12 56 | 15 50 | | | * | ☐ | * | | | * |
| 31 | 15 18 | 1 10 | 0 3 | 14 11 | 17 21 | | | | | | * | * | |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 25 | 15 S 31 | 1 N 45 | 20 S 54 | 0 S 59 | 11 N 2 |
| 4 | 16 | 0 | 0 25 | 15 29 | 1 45 | 20 53 | 0 59 | 11 17 |
| 7 | 15 | 59 | 0 25 | 15 27 | 1 46 | 20 53 | 0 59 | 11 32 |
| 10 | 15 | 58 | 0 25 | 15 24 | 1 46 | 20 52 | 0 59 | 11 47 |
| 13 | 15 | 58 | 0 25 | 15 22 | 1 46 | 20 52 | 0 58 | 12 1 |
| 16 | 15 | 57 | 0 25 | 15 20 | 1 46 | 20 51 | 0 58 | 12 15 |
| 19 | 15 | 56 | 0 25 | 15 18 | 1 47 | 20 50 | 0 58 | 12 30 |
| 22 | 15 | 56 | 0 25 | 15 17 | 1 47 | 20 48 | 0 58 | 12 45 |
| 25 | 15 | 55 | 0 25 | 15 15 | 1 47 | 20 47 | 0 57 | 12 59 |
| 28 | 15 | 54 | 0 25 | 15 12 | 1 47 | 20 46 | 0 57 | 13 13 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin | | ☽
Long. | | ☽
Lat. | | ☽
Declin | | ♃
Long. | |
|--------|--------|-------------------|----|----|------------|--------|-------------|------|------------|------|-----------|------|-------------|------|------------|------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 0 | 36 | 47 | 11 | r 6 31 | 4 | N 24 | 8 | × 27 | 3 | N 8 | 5 | S 30 | 13 | m 31 |
| 2 | M | 0 | 40 | 43 | 12 | 5 37 | 4 | 47 | 22 | 20 | 2 | 1 | 1 | 12 | 13 | R 29 |
| 3 | Tu | 0 | 44 | 40 | 13 | 4 41 | 5 | 10 | 6 | r 0 | 0 | 48 | 3 | N 7 | 13 | 27 |
| 4 | W | 0 | 48 | 37 | 14 | 3 43 | 5 | 33 | 19 | 24 | 0 | S 26 | 7 | 12 | 13 | 25 |
| 5 | Th | 0 | 52 | 33 | 15 | 2 44 | 5 | 56 | 2 | 31 | 1 | 37 | 10 | 50 | 13 | 23 |
| 6 | F | 0 | 56 | 30 | 16 | 1 42 | 6 | 19 | 15 | 21 | 2 | 42 | 13 | 52 | 13 | 21 |
| 7 | S | 1 | 0 | 26 | 17 | 0 38 | 6 | 41 | 27 | 54 | 3 | 38 | 16 | 11 | 13 | 19 |
| 8 | S | 1 | 4 | 23 | 17 | 59 32 | 7 | 4 | 10 | □ 12 | 4 | 22 | 17 | 41 | 13 | 17 |
| 9 | M | 1 | 8 | 19 | 18 | 58 24 | 7 | 26 | 22 | 18 | 4 | 53 | 18 | 22 | 13 | 15 |
| 10 | Tu | 1 | 12 | 16 | 19 | 57 13 | 7 | 49 | 4 | 16 | 5 | 12 | 18 | 12 | 13 | 12 |
| 11 | W | 1 | 16 | 12 | 20 | 56 1 | 8 | 11 | 16 | 9 | 5 | 17 | 17 | 15 | 13 | 9 |
| 12 | Th | 1 | 20 | 9 | 21 | 54 45 | 8 | 33 | 28 | 2 | 5 | 8 | 15 | 32 | 13 | 7 |
| 13 | F | 1 | 24 | 5 | 22 | 53 28 | 8 | 55 | 10 | Ω 1 | 4 | 47 | 13 | 9 | 13 | 4 |
| 14 | S | 1 | 28 | 2 | 23 | 52 6 | 9 | 16 | 22 | 9 | 4 | 12 | 10 | 10 | 13 | 2 |
| 15 | S | 1 | 31 | 59 | 24 | 50 46 | 9 | 38 | 4 | m 31 | 3 | 25 | 6 | 41 | 13 | 0 |
| 16 | M | 1 | 35 | 55 | 25 | 49 22 | 9 | 59 | 17 | 9 | 2 | 27 | 2 | 49 | 12 | 58 |
| 17 | Tu | 1 | 39 | 52 | 26 | 47 56 | 10 | 20 | 0 | △ 7 | 1 | 20 | 1 | S 16 | 12 | 56 |
| 18 | W | 1 | 43 | 48 | 27 | 46 28 | 10 | 42 | 13 | 25 | 0 | 7 | 5 | 25 | 12 | 53 |
| 19 | Th | 1 | 47 | 45 | 28 | 44 57 | 11 | 2 | 27 | 4 | 1 | N 8 | 9 | 23 | 12 | 51 |
| 20 | F | 1 | 51 | 41 | 29 | 43 25 | 11 | 23 | 11 | m 1 | 2 | 20 | 12 | 55 | 12 | 48 |
| 21 | S | 1 | 55 | 38 | 0 | 41 51 | 11 | 44 | 25 | 12 | 3 | 25 | 15 | 45 | 12 | 46 |
| 22 | S | 1 | 59 | 35 | 1 | 40 16 | 12 | 4 | 9 | † 33 | 4 | 18 | 17 | 39 | 12 | 44 |
| 23 | M | 2 | 3 | 31 | 2 | 38 39 | 12 | 24 | 23 | 59 | 4 | 55 | 18 | 25 | 12 | 41 |
| 24 | Tu | 2 | 7 | 28 | 3 | 37 0 | 12 | 44 | 8 | w 24 | 5 | 13 | 17 | 59 | 12 | 38 |
| 25 | W | 2 | 11 | 24 | 4 | 35 20 | 13 | 4 | 22 | 45 | 5 | 12 | 16 | 25 | 12 | 35 |
| 26 | Th | 2 | 15 | 21 | 5 | 33 38 | 13 | 23 | 6 | m 57 | 4 | 52 | 13 | 51 | 12 | 32 |
| 27 | F | 2 | 19 | 17 | 6 | 31 55 | 13 | 43 | 21 | 0 | 4 | 14 | 10 | 30 | 12 | 30 |
| 28 | S | 2 | 23 | 14 | 7 | 30 10 | 14 | 2 | 4 | × 51 | 3 | 22 | 6 | 37 | 12 | 28 |
| 29 | S | 2 | 27 | 10 | 8 | 28 24 | 14 | 20 | 18 | 30 | 2 | 19 | 2 | 26 | 12 | 26 |
| 30 | M | 2 | 31 | 7 | 9 | 26 36 | 14 | 39 | 1 | r 56 | 1 | 9 | 1 | N 50 | 12 | 23 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | |
|--------|--------|---------|--------|---------|----------|---------|-----------------|----|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 0 N 14 | 18 N 38 | 0 S 8 | 18 N 16 | 0 N 33 | 17 N 14 | 13 | 28 |
| 4 | 0 16 | 19 12 | 0 0 | 19 15 | 1 4 | 19 27 | 13 | 19 |
| 7 | 0 18 | 19 44 | 0 N 6 | 20 15 | 1 31 | 21 22 | 13 | 9 |
| 10 | 0 20 | 20 14 | 0 13 | 21 4 | 1 54 | 22 56 | 13 | 0 |
| 13 | 0 22 | 20 43 | 0 21 | 21 53 | 2 10 | 24 6 | 12 | 50 |
| 16 | 0 24 | 21 9 | 0 29 | 22 34 | 2 19 | 24 54 | 12 | 41 |
| 19 | 0 25 | 21 35 | 0 36 | 23 10 | 2 21 | 25 22 | 12 | 31 |
| 22 | 0 27 | 21 57 | 0 43 | 23 38 | 2 14 | 25 31 | 12 | 22 |
| 25 | 0 28 | 22 20 | 0 50 | 24 3 | 2 0 | 25 25 | 12 | 12 |
| 28 | 0 30 | 22 40 | 0 56 | 24 18 | 1 38 | 25 6 | 12 | 3 |
| 31 | 0 32 | 22 58 | 1 2 | 24 35 | 1 9 | 24 36 | 11 | 53 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 14 15 | 8 31 | 22 28 | 22 29 | 16 11 | ♀ ♂ ♂ | | | Δ | | | | |
| 2 | 14 12 | 8 45 | 23 11 | 23 43 | 18 20 | | | | | | | | |
| 3 | 14 8 | 8 59 | 23 54 | 24 57 | 20 27 | ☉ ♂ ♃ | ♈ ♂ | | ♈ | | ♈ | ♈ | ♈ |
| 4 | 14 5 | 9 13 | 24 36 | 26 10 | 22 33 | | | | | | ♈ | ♈ | ♈ |
| 5 | 14 1 | 9 27 | 25 19 | 27 24 | 24 38 | | | | | | | | |
| 6 | 13 58 | 9 41 | 26 1 | 28 38 | 26 41 | ♈ ♂ ♂ | | | ♈ | | | | |
| 7 | 13 54 | 9 56 | 26 43 | 29 51 | 28 42 | | | | | | | | |
| 8 | 13 51 | 10 10 | 27 46 | 1 5 | 0 41 | | * | Δ | | * | | | |
| 9 | 13 47 | 10 24 | 28 8 | 2 19 | 2 37 | ♈ ♂ ♀ | | | | | * | | * |
| 10 | 13 43 | 10 39 | 28 50 | 3 32 | 4 31 | | | | | □ | | * | * |
| 11 | 13 39 | 10 53 | 29 32 | 4 46 | 6 22 | | □ | □ | Δ | | | | |
| 12 | 13 35 | 11 7 | 0 14 | 6 0 | 8 10 | | | | | | □ | | |
| 13 | 13 31 | 11 22 | 0 56 | 7 13 | 9 54 | | | * | □ | Δ | | □ | □ |
| 14 | 13 27 | 11 36 | 1 38 | 8 27 | 11 35 | | Δ | | | | | | |
| 15 | 13 23 | 11 51 | 2 20 | 9 40 | 13 13 | ♈ ♂ ♃ | | | * | | Δ | Δ | Δ |
| 16 | 13 19 | 12 5 | 3 2 | 10 54 | 14 48 | ♈ ♂ ♈ | | | | | | | |
| 17 | 13 15 | 12 19 | 3 44 | 12 7 | 16 20 | | | ♈ | | ♈ | | | |
| 18 | 13 11 | 12 33 | 4 26 | 13 21 | 17 48 | ♀ ♂ ♈ | | | | | | | |
| 19 | 13 6 | 12 47 | 5 7 | 14 34 | 19 13 | | ♈ | | | | ♈ | ♈ | ♈ |
| 20 | 13 2 | 13 1 | 5 49 | 15 47 | 20 35 | | | | ♈ | | | ♈ | ♈ |
| 21 | 12 58 | 13 15 | 6 31 | 17 1 | 21 53 | | | | | | | | |
| 22 | 12 54 | 13 29 | 7 12 | 18 14 | 23 6 | | | * | | Δ | | | |
| 23 | 12 50 | 13 43 | 7 54 | 19 28 | 24 16 | | Δ | | | | Δ | | |
| 24 | 12 46 | 13 57 | 8 36 | 20 41 | 25 23 | | | □ | * | □ | | Δ | |
| 25 | 12 41 | 14 11 | 9 17 | 21 54 | 26 26 | | □ | | | | | | Δ |
| 26 | 12 37 | 14 25 | 9 59 | 23 7 | 27 25 | | | Δ | □ | * | □ | | |
| 27 | 12 32 | 14 38 | 10 40 | 24 21 | 28 20 | | | | | | | □ | □ |
| 28 | 12 28 | 14 52 | 11 22 | 25 34 | 29 11 | | * | | Δ | | * | | |
| 29 | 12 23 | 15 6 | 12 3 | 26 47 | 29 58 | ♈ ♂ ♈ | | | | | | * | * |
| 30 | 12 19 | 15 19 | 12 45 | 28 1 | 0 41 | | | | | | | | |
| 31 | 12 14 | 15 33 | 13 26 | 29 14 | 1 20 | | | ♈ | | ♈ | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 24 | 14 S 47 | 1 N 47 | 20 S 80 | 0 S 56 | 16 N 41 |
| 4 | 15 | 48 | 0 24 | 14 44 | 1 47 | 20 29 | 0 56 | 15 53 |
| 7 | 15 | 47 | 0 24 | 14 42 | 1 47 | 20 27 | 0 56 | 16 4 |
| 10 | 15 | 47 | 0 24 | 14 41 | 1 47 | 20 25 | 0 56 | 16 15 |
| 13 | 15 | 46 | 0 24 | 14 40 | 1 46 | 20 24 | 0 57 | 16 26 |
| 16 | 15 | 46 | 0 24 | 14 39 | 1 46 | 20 23 | 0 57 | 16 37 |
| 19 | 15 | 46 | 0 24 | 14 38 | 1 46 | 20 21 | 0 57 | 16 47 |
| 22 | 15 | 46 | 0 24 | 14 37 | 1 46 | 20 19 | 0 57 | 16 56 |
| 25 | 15 | 46 | 0 24 | 14 35 | 1 45 | 20 18 | 0 57 | 17 6 |
| 28 | 15 | 45 | 0 24 | 14 32 | 1 45 | 20 17 | 0 57 | 17 15 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 4 37 18 | 10 15 37 | 22 N 0 | 2 12 27 | 3 S 51 | 16 N 54 | 11 m 6 |
| 2 | S | 4 41 10 | 11 13 6 | 22 9 | 14 40 | 4 28 18 | 9 | 11 B 4 |
| 3 | S | 4 45 6 | 12 10 33 | 22 16 | 26 45 | 4 52 18 | 34 | 11 2 |
| 4 | M | 4 49 3 | 13 7 59 | 22 24 | 8 43 | 5 3 18 | 8 | 11 0 |
| 5 | Tu | 4 53 0 | 14 5 24 | 22 31 | 20 37 | 5 1 16 | 56 | 10 58 |
| 6 | W | 4 56 56 | 15 2 48 | 22 37 | 2 28 | 4 45 14 | 59 | 10 56 |
| 7 | Th | 5 0 53 | 16 0 12 | 22 44 | 14 20 | 4 18 12 | 28 | 10 54 |
| 8 | F | 5 4 49 | 16 57 34 | 22 49 | 26 15 | 3 39 9 | 21 | 10 52 |
| 9 | S | 5 8 46 | 17 54 55 | 22 55 | 8 m 19 | 2 50 5 | 50 | 10 50 |
| 10 | S | 5 12 42 | 18 52 15 | 23 0 | 20 37 | 1 52 2 | 0 | 10 48 |
| 11 | M | 5 16 39 | 19 49 34 | 23 4 | 3 12 | 0 48 2 | S 0 | 10 47 |
| 12 | Tu | 5 20 35 | 20 46 52 | 23 8 | 16 10 | 0 N 21 | 6 2 | 10 46 |
| 13 | W | 5 24 32 | 21 44 10 | 23 12 | 29 36 | 1 31 9 | 55 | 10 44 |
| 14 | Th | 5 28 29 | 22 41 26 | 23 16 | 18 m 29 | 2 38 13 | 23 | 10 42 |
| 15 | F | 5 32 25 | 23 38 42 | 23 19 | 27 52 | 3 37 16 | 10 | 10 41 |
| 16 | S | 5 36 22 | 24 35 56 | 23 21 | 12 f 39 | 4 24 17 | 59 | 10 40 |
| 17 | S | 5 40 18 | 25 33 11 | 23 23 | 27 44 | 4 53 18 | 34 | 10 38 |
| 18 | M | 5 44 15 | 26 30 25 | 23 25 | 12 v 57 | 5 1 17 | 50 | 10 36 |
| 19 | Tu | 5 48 11 | 27 27 39 | 23 26 | 28 7 | 4 49 15 | 50 | 10 34 |
| 20 | W | 5 52 8 | 28 24 52 | 23 27 | 13 m 4 | 4 17 12 | 48 | 10 32 |
| 21 | Th | 5 56 4 | 29 22 5 | 23 28 | 27 41 | 3 28 9 | 2 | 10 31 |
| 22 | F | 6 0 1 | 0 19 19 | 23 28 | 11 x 53 | 2 28 4 | 50 | 10 30 |
| 23 | S | 6 3 58 | 1 16 32 | 23 27 | 25 39 | 1 21 0 | 30 | 10 29 |
| 24 | S | 6 7 54 | 2 13 45 | 23 27 | 9 r 1 | 0 11 3 | N 45 | 10 27 |
| 25 | M | 6 11 51 | 3 10 58 | 23 25 | 22 2 | 0 S 58 | 7 42 | 10 26 |
| 26 | Tu | 6 15 47 | 4 8 11 | 23 24 | 4 45 | 2 2 11 | 12 | 10 25 |
| 27 | W | 6 19 44 | 5 5 25 | 23 22 | 17 14 | 2 58 14 | 8 | 10 24 |
| 28 | Th | 6 23 40 | 6 2 38 | 23 19 | 29 31 | 3 46 16 | 23 | 10 23 |
| 29 | F | 6 27 37 | 6 59 52 | 23 17 | 11 40 | 4 28 17 | 52 | 10 22 |
| 30 | S | 6 31 34 | 7 57 5 | 23 13 | 23 42 | 4 47 18 | 32 | 10 21 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 32 | 23 N 3 | 1 N 5 | 24 N 33 | 0 N 58 | 24 N 24 | 11 49 |
| 4 | 0 34 | 23 19 | 1 10 | 24 36 | 0 19 | 23 44 | 11 39 |
| 7 | 0 35 | 23 32 | 1 17 | 24 30 | 0 S 26 | 22 58 | 11 30 |
| 10 | 0 37 | 23 41 | 1 22 | 24 18 | 1 15 | 22 9 | 11 20 |
| 13 | 0 38 | 23 52 | 1 26 | 24 2 | 2 6 | 21 20 | 11 11 |
| 16 | 0 40 | 24 0 | 1 30 | 23 37 | 2 55 | 20 32 | 11 1 |
| 19 | 0 41 | 24 6 | 1 34 | 23 9 | 3 38 | 19 50 | 10 52 |
| 22 | 0 43 | 24 9 | 1 37 | 22 29 | 4 11 | 19 16 | 10 42 |
| 25 | 0 44 | 24 11 | 1 39 | 21 52 | 4 32 | 18 53 | 10 33 |
| 28 | 0 46 | 24 12 | 1 41 | 21 5 | 4 40 | 18 43 | 10 23 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 12 10 | 15 47 | 14 7 | 0 27 | 1 55 | | | | | | | | |
| 2 | 12 5 | 16 1 | 14 48 | 1 40 | 2 26 | | ♂ | | ♂ | | ♂ | | |
| 3 | 12 1 | 16 14 | 15 29 | 2 53 | 2 51 | ☉ ♂ h | | | | | | | |
| 4 | 11 56 | 16 28 | 16 16 | 4 6 | 3 11 | ♀ ♂ ♀ | | Δ | | | | ♂ | ♂ |
| 5 | 11 52 | 16 41 | 16 51 | 5 19 | 3 27 | | | | | * | | | |
| 6 | 11 48 | 16 55 | 17 32 | 6 32 | 3 39 | | | | | | | | |
| 7 | 11 43 | 17 8 | 18 13 | 7 45 | 3 48 | | * | □ | Δ | □ | * | | |
| 8 | 11 39 | 17 22 | 18 54 | 8 58 | 3 52 | | | | | | | | |
| 9 | 11 34 | 17 35 | 19 35 | 10 11 | 3 50 | | | * | □ | | | * | * |
| 10 | 11 30 | 17 48 | 20 16 | 11 24 | 3 43 | ♀ Δ h | □ | | | Δ | □ | | |
| 11 | 11 25 | 18 1 | 20 57 | 12 37 | 3 32 | | | | | | | | □ |
| 12 | 11 21 | 18 14 | 21 38 | 13 50 | 3 18 | | Δ | | * | | Δ | □ | |
| 13 | 11 17 | 18 27 | 22 18 | 15 3 | 3 0 | | | | | | | | Δ |
| 14 | 11 12 | 18 40 | 22 59 | 16 16 | 2 38 | | | ♂ | | ♂ | | Δ | |
| 15 | 11 8 | 18 53 | 23 39 | 17 29 | 2 13 | ☉ ♂ ♂ | | | | | | | |
| 16 | 11 3 | 19 6 | 24 20 | 18 42 | 1 45 | ♀ * ♄ | | | ♂ | | | | |
| 17 | 10 59 | 19 19 | 25 0 | 19 55 | 1 15 | | ♂ | | | | ♂ | | ♂ |
| 18 | 10 55 | 19 32 | 25 41 | 21 8 | 0 42 | | | * | | Δ | | | |
| 19 | 10 51 | 19 45 | 26 21 | 22 20 | 0 8 | | | | | | | ♂ | |
| 20 | 10 47 | 19 58 | 27 2 | 23 33 | 29 33 | | | □ | * | □ | | | |
| 21 | 10 43 | 20 10 | 27 42 | 24 45 | 28 58 | ☉ ♂ ♀ | Δ | | | | Δ | | Δ |
| 22 | 10 39 | 20 23 | 28 23 | 25 58 | 28 24 | ♀ ♂ ♂ | | Δ | □ | | | | |
| 23 | 10 35 | 20 35 | 29 3 | 27 10 | 27 51 | | □ | | | * | □ | Δ | □ |
| 24 | 10 31 | 20 48 | 29 43 | 28 23 | 27 19 | | | | Δ | | | | |
| 25 | 10 27 | 21 0 | 0 23 | 29 35 | 26 49 | | | | | | | | * |
| 26 | 10 23 | 21 12 | 1 4 | 0 48 | 26 21 | | | * | | | | * | □ |
| 27 | 10 19 | 21 24 | 1 44 | 2 0 | 25 57 | | | ♂ | | ♂ | | * | |
| 28 | 10 15 | 21 36 | 2 24 | 3 13 | 25 36 | | | | | | | * | |
| 29 | 10 12 | 21 48 | 3 4 | 4 25 | 25 19 | | | | ♂ | | | | |
| 30 | 10 8 | 22 0 | 3 44 | 5 38 | 25 7 | | | | | | | | ♂ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 24 | 14 S 33 | 1 N 44 | 20 S 16 | 0 S 57 | 17 N 25 |
| 4 | 15 | 45 | 0 24 | 14 32 | 1 44 | 20 15 | 0 57 | 17 34 |
| 7 | 15 | 45 | 0 24 | 14 32 | 1 43 | 20 14 | 0 58 | 17 42 |
| 10 | 15 | 46 | 0 24 | 14 32 | 1 43 | 20 13 | 0 58 | 17 50 |
| 13 | 15 | 46 | 0 23 | 14 31 | 1 42 | 20 12 | 0 58 | 17 58 |
| 16 | 15 | 46 | 0 23 | 14 31 | 1 42 | 20 11 | 0 58 | 18 6 |
| 19 | 15 | 46 | 0 23 | 14 31 | 1 41 | 20 11 | 0 58 | 18 13 |
| 22 | 15 | 46 | 0 23 | 14 31 | 1 41 | 20 11 | 0 58 | 18 20 |
| 25 | 15 | 47 | 0 23 | 14 32 | 1 40 | 20 11 | 0 59 | 18 26 |
| 28 | 15 | 47 | 0 23 | 14 32 | 1 40 | 20 10 | 0 59 | 18 33 |
| 31 | 15 | 47 | 0 23 | 14 32 | 1 39 | 20 10 | 0 59 | 18 38 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|-----------------------|-------------|-----------------------|-----------|-------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 6 35 31 | 8 ²⁵ 54 19 | 23 N 10 | 5 ²⁵ 40 | 4 S 59 | 18 N 22 | 10 ^m 20 |
| 2 | M | 6 39 27 | 9 51 33 | 23 | 6 17 34 | 4 57 | 17 24 | 10 ^R 19 |
| 3 | Tu | 6 43 23 | 10 48 46 | 23 | 1 29 25 | 4 43 | 15 41 | 10 18 |
| 4 | W | 6 47 20 | 11 46 0 | 22 | 56 11 16 | 4 16 | 13 18 | 10 17 |
| 5 | Th | 6 51 16 | 12 43 13 | 22 | 51 23 9 | 3 38 | 10 23 | 10 16 |
| 6 | F | 6 55 13 | 13 40 27 | 22 | 46 5 ^m 6 | 2 50 | 7 0 | 10 16 |
| 7 | S | 6 59 9 | 14 37 40 | 22 | 39 17 11 | 1 54 | 3 19 | 10 15 |
| 8 | S | 7 3 6 | 15 34 53 | 22 | 33 29 28 | 0 52 | 0 S 35 | 10 15 |
| 9 | M | 7 7 3 | 16 32 6 | 22 | 26 12 ^Δ 1 | 0 N 14 | 4 32 | 10 14 |
| 10 | Tu | 7 10 59 | 17 29 19 | 22 | 19 24 55 | 1 22 | 8 23 | 10 14 |
| 11 | W | 7 14 56 | 18 26 31 | 22 | 11 8 ^m 15 | 2 27 | 11 57 | 10 13 |
| 12 | Th | 7 18 52 | 19 23 44 | 22 | 3 22 3 | 3 26 | 14 59 | 10 13 |
| 13 | F | 7 22 49 | 20 20 57 | 21 | 55 6 ^f 21 | 4 14 | 17 13 | 10 13 |
| 14 | S | 7 26 45 | 21 18 10 | 21 | 46 21 6 | 4 47 | 18 23 | 10 12 |
| 15 | S | 7 30 42 | 22 15 23 | 21 | 37 6 ^w 12 | 5 1 | 18 18 | 10 12 |
| 16 | M | 7 34 38 | 23 12 36 | 21 | 28 21 31 | 4 54 | 16 54 | 10 12 |
| 17 | Tu | 7 38 35 | 24 9 50 | 21 | 18 6 ^m 50 | 4 26 | 14 17 | 10 ^D 12 |
| 18 | W | 7 42 32 | 25 7 5 | 21 | 8 21 58 | 3 39 | 10 44 | 10 12 |
| 19 | Th | 7 46 28 | 26 4 20 | 20 | 57 6 ^x 47 | 2 39 | 6 34 | 10 12 |
| 20 | F | 7 50 25 | 27 1 35 | 20 | 46 21 ^Δ 10 | 1 30 | 2 8 | 10 12 |
| 21 | S | 7 54 21 | 27 58 52 | 20 | 35 5 ^r 5 | 0 17 | 2 N 17 | 10 12 |
| 22 | S | 7 58 18 | 28 56 9 | 20 | 23 18 31 | 0 S 54 | 6 26 | 10 13 |
| 23 | M | 8 2 14 | 29 53 28 | 20 | 12 1 ⁸ 33 | 2 1 | 10 8 | 10 13 |
| 24 | Tu | 8 6 11 | 0 ^Ω 50 47 | 19 | 59 14 14 | 2 59 | 13 16 | 10 14 |
| 25 | W | 8 10 7 | 1 48 7 | 19 | 47 26 37 | 3 48 | 15 44 | 10 14 |
| 26 | Th | 8 14 4 | 2 45 29 | 19 | 34 8 ^Π 48 | 4 25 | 17 26 | 10 14 |
| 27 | F | 8 18 1 | 3 42 51 | 19 | 20 20 50 | 4 50 | 18 19 | 10 15 |
| 28 | S | 8 21 57 | 4 40 14 | 19 | 7 2 ⁵ 46 | 5 2 | 18 24 | 10 15 |
| 29 | S | 8 25 54 | 5 37 39 | 18 | 53 14 39 | 5 1 | 17 40 | 10 15 |
| 30 | M | 8 29 50 | 6 35 4 | 18 | 39 26 30 | 4 47 | 16 11 | 10 16 |
| 31 | Tu | 8 33 47 | 7 32 30 | 18 | 24 8 ^Ω 22 | 4 20 | 14 0 | 10 16 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 47 | 24 N 10 | 1 S 42 | 20 N 13 | 17 18 | 18 N 47 | 10 14 |
| 4 | 0 48 | 24 6 | 1 42 | 19 6 | 4 18 | 19 4 | 10 4 |
| 7 | 0 49 | 24 1 | 1 42 | 18 15 | 8 52 | 19 32 | 9 55 |
| 10 | 0 51 | 23 54 | 1 41 | 16 27 | 3 19 | 20 7 | 9 45 |
| 13 | 0 52 | 23 45 | 1 39 | 15 59 | 2 41 | 20 47 | 9 36 |
| 16 | 0 53 | 23 35 | 1 36 | 14 41 | 2 0 | 21 26 | 9 26 |
| 19 | 0 54 | 23 22 | 1 33 | 13 29 | 1 18 | 21 59 | 9 17 |
| 22 | 0 55 | 23 8 | 1 29 | 12 8 | 0 37 | 22 22 | 9 7 |
| 25 | 0 56 | 22 52 | 1 24 | 10 46 | 0 N 2 | 22 29 | 8 58 |
| 28 | 0 57 | 22 33 | 1 17 | 9 20 | 0 36 | 22 16 | 8 48 |
| 31 | 0 59 | 22 14 | 1 11 | 7 57 | 1 4 | 21 33 | 8 39 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual, Lunar Aspects. | |
|--------|---------|-------------|-------------|----------|-------|------------------------|---|
| Long. | Long. | Long. | Long. | Long. | Long. | | |
| 1 | 10 5 23 | 12 45 24 | ♈ 50 | 24 11 59 | | | |
| 2 | 10 1 22 | 24 5 4 8 | 2 24 15 55 | | | | |
| 3 | 9 58 22 | 35 5 44 9 | 15 24 15 55 | | | | |
| 4 | 9 54 22 | 47 6 24 10 | 27 25 3 | | | | |
| 5 | 9 51 22 | 58 7 4 11 | 40 25 14 | | | | |
| 6 | 9 47 23 | 10 7 44 12 | 52 25 30 | | | | |
| 7 | 9 44 23 | 21 8 23 14 | 4 25 53 | | | | |
| 8 | 9 41 23 | 33 9 3 15 | 17 26 21 | | | | |
| 9 | 9 38 23 | 44 9 43 16 | 29 26 53 | | | | |
| 10 | 9 35 23 | 55 10 22 17 | 41 27 30 | | | | |
| 11 | 9 32 24 | 6 11 3 18 | 53 28 12 | | | | |
| 12 | 9 29 24 | 17 11 42 20 | 5 29 0 | | | | |
| 13 | 9 26 24 | 28 12 21 21 | 17 29 53 | | | | |
| 14 | 9 23 24 | 38 13 1 22 | 29 0 51 | | | | |
| 15 | 9 20 24 | 49 13 40 23 | 41 1 58 | | | | |
| 16 | 9 18 24 | 59 14 20 24 | 53 3 0 | | | | |
| 17 | 9 15 25 | 10 14 59 26 | 5 4 11 | | | | |
| 18 | 9 13 25 | 20 15 39 27 | 17 5 27 | | | | |
| 19 | 9 11 25 | 30 16 18 28 | 28 6 49 | | | | |
| 20 | 9 9 25 | 40 16 58 29 | 40 8 15 | | | | |
| 21 | 9 7 25 | 50 17 37 0 | 51 9 45 | ♀ Δ ♈ | | Δ | □ |
| 22 | 9 5 26 | 0 18 16 2 | 3 11 19 | | | | |
| 23 | 9 3 26 | 10 18 65 8 | 14 12 57 | | □ | | □ |
| 24 | 9 1 26 | 20 19 34 4 | 26 14 39 | | ♂ | | * |
| 25 | 8 59 26 | 29 20 13 5 | 37 16 24 | | * | ♂ | |
| 26 | 8 57 26 | 38 20 53 6 | 49 18 13 | | | ♂ | □ |
| 27 | 8 55 26 | 47 21 32 8 | 0 20 5 | ♀ ♂ ♈ | | | |
| 28 | 8 54 26 | 56 22 11 9 | 11 22 0 | ♀ □ ♈ | | | |
| 29 | 8 52 27 | 5 22 50 10 | 23 23 57 | ♀ * ♈ | | Δ | * |
| 30 | 8 51 27 | 14 23 29 11 | 34 25 56 | | | * | ♂ |
| 31 | 8 49 27 | 23 24 8 12 | 45 27 57 | ♀ * ♈ | ♂ □ Δ | | ♂ |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 23 | 14 S 33 | 1 N 38 | 20 S 10 | 0 S 59 | 18 N 40 |
| 4 | 15 | 47 | 0 23 | 14 34 | 1 38 | 20 10 | 0 59 | 18 45 |
| 7 | 15 | 48 | 0 23 | 14 35 | 1 37 | 20 11 | 1 0 | 18 50 |
| 10 | 15 | 48 | 0 23 | 14 36 | 1 37 | 20 12 | 1 0 | 18 55 |
| 13 | 15 | 49 | 0 23 | 14 37 | 1 36 | 20 12 | 1 1 | 18 59 |
| 16 | 15 | 49 | 0 23 | 14 38 | 1 35 | 20 13 | 1 1 | 19 3 |
| 19 | 15 | 50 | 0 23 | 14 39 | 1 34 | 20 14 | 1 1 | 19 7 |
| 22 | 15 | 50 | 0 22 | 14 41 | 1 34 | 20 15 | 1 1 | 19 10 |
| 25 | 15 | 51 | 0 22 | 14 43 | 1 33 | 20 16 | 1 2 | 19 13 |
| 28 | 15 | 51 | 0 22 | 14 45 | 1 33 | 20 17 | 1 2 | 19 16 |
| 31 | 15 | 52 | 0 22 | 14 47 | 1 32 | 20 18 | 1 2 | 19 18 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 8 37 47 | 8 Ω 29 57 | 18 N 9 | 20 Ω 16 | 3 S 42 | 11 N 13 | 10 m 16 |
| 2 | Th | 8 41 43 | 9 27 25 | 17 54 | 2 m 14 | 2 54 | 7 59 | 10 17 |
| 3 | F | 8 45 40 | 10 24 54 | 17 39 | 14 17 | 1 57 | 4 23 | 10 17 |
| 4 | S | 8 49 36 | 11 22 23 | 17 23 | 26 28 | 0 55 | 0 33 | 10 18 |
| 5 | S | 8 53 33 | 12 19 54 | 17 7 | 8 ∩ 50 | 0 N 11 | 3 S 21 | 10 19 |
| 6 | M | 8 57 30 | 13 17 25 | 16 51 | 21 27 | 1 18 | 7 10 | 10 20 |
| 7 | Tu | 9 1 26 | 14 14 57 | 16 34 | 4 m 21 | 2 22 | 10 45 | 10 21 |
| 8 | W | 9 5 23 | 15 12 30 | 16 17 | 17 38 | 3 21 | 13 53 | 10 22 |
| 9 | Th | 9 9 19 | 16 10 3 | 16 0 | 1 † 19 | 4 11 | 16 21 | 10 23 |
| 10 | F | 9 13 16 | 17 7 37 | 15 43 | 15 26 | 4 47 | 17 55 | 10 24 |
| 11 | S | 9 17 12 | 18 5 12 | 15 25 | 29 59 | 5 6 | 18 22 | 10 25 |
| 12 | S | 9 21 9 | 19 2 49 | 15 8 | 14 v 52 | 5 5 | 17 35 | 10 26 |
| 13 | M | 9 25 5 | 20 0 26 | 14 50 | 0 m 0 | 4 43 | 15 34 | 10 27 |
| 14 | Tu | 9 29 2 | 20 58 4 | 14 31 | 15 12 | 4 1 | 12 27 | 10 28 |
| 15 | W | 9 32 59 | 21 55 44 | 14 13 | 0 x 18 | 8 2 | 8 32 | 10 30 |
| 16 | Th | 9 36 55 | 22 53 25 | 13 54 | 15 8 | 1 52 | 4 9 | 10 31 |
| 17 | F | 9 40 52 | 23 51 7 | 13 35 | 29 36 | 0 36 | 0 N 23 | 10 33 |
| 18 | S | 9 44 48 | 24 48 51 | 13 16 | 13 r 38 | 0 S 40 | 4 46 | 10 34 |
| 19 | S | 9 48 45 | 25 46 36 | 12 56 | 27 11 | 1 51 | 8 45 | 10 36 |
| 20 | M | 9 52 41 | 26 44 23 | 12 37 | 10 c 18 | 2 55 | 12 10 | 10 38 |
| 21 | Tu | 9 56 38 | 27 42 12 | 12 17 | 23 2 | 3 47 | 14 53 | 10 40 |
| 22 | W | 10 0 34 | 28 40 3 | 11 57 | 5 □ 27 | 4 28 | 16 51 | 10 42 |
| 23 | Th | 10 4 31 | 29 37 55 | 11 37 | 17 37 | 4 55 | 17 59 | 10 44 |
| 24 | F | 10 8 28 | 0 m 35 49 | 11 16 | 29 37 | 5 9 | 18 19 | 10 46 |
| 25 | S | 10 12 24 | 1 33 46 | 10 56 | 11 ∩ 31 | 5 10 | 17 49 | 10 48 |
| 26 | S | 10 16 21 | 2 31 43 | 10 35 | 23 22 | 4 57 | 16 33 | 10 50 |
| 27 | M | 10 20 17 | 3 29 43 | 10 14 | 5 Ω 14 | 4 32 | 14 35 | 10 52 |
| 28 | Tu | 10 24 14 | 4 27 44 | 9 53 | 17 8 | 3 55 | 11 59 | 10 54 |
| 29 | W | 10 28 10 | 5 25 47 | 9 32 | 29 8 | 3 7 | 8 52 | 10 56 |
| 30 | Th | 10 32 7 | 6 23 52 | 9 10 | 11 m 16 | 2 10 | 5 21 | 10 58 |
| 31 | F | 10 36 2 | 7 21 58 | 8 49 | 23 29 | 1 6 | 1 34 | 11 0 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 59 | 22 N 9 | 1 N 10 | 7 N 25 | 1 N 12 | 21 N 21 | 8 Δ 35 |
| 4 | 1 0 | 21 47 | 1 3 | 5 55 | 1 31 | 20 12 | 8 25 |
| 7 | 1 1 | 21 26 | 0 55 | 4 25 | 1 42 | 18 43 | 8 16 |
| 10 | 1 2 | 21 2 | 0 46 | 2 55 | 1 46 | 16 58 | 8 6 |
| 13 | 1 3 | 20 38 | 0 38 | 1 21 | 1 44 | 15 0 | 7 57 |
| 16 | 1 4 | 20 13 | 0 28 | 0 S 12 | 1 37 | 12 54 | 7 47 |
| 19 | 1 5 | 19 45 | 0 18 | 1 45 | 1 25 | 10 42 | 7 38 |
| 22 | 1 6 | 19 15 | 0 7 | 3 17 | 1 10 | 8 27 | 7 28 |
| 25 | 1 7 | 18 46 | 0 S 4 | 4 50 | 0 52 | 6 11 | 7 19 |
| 28 | 1 8 | 18 14 | 0 17 | 6 21 | 0 32 | 3 55 | 7 9 |
| 31 | 1 9 | 17 40 | 0 30 | 7 49 | 0 10 | 1 41 | 7 0 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|---------|---------|--------|--------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 8 48 27 | ♈ 32 24 | ♉ 47 13 | ♊ 56 29 | ♋ 59 0 | ♌ 59 0 | ☉ Δ h | | | | | | | |
| 2 | 8 47 27 | 40 25 | 26 15 | 7 2 | 2 2 | 2 2 | | | | | | | | |
| 3 | 8 46 27 | 49 26 | 5 16 | 18 4 | 6 | 6 | ☉ □ h | | * | □ | | | ♈ | |
| 4 | 8 45 27 | 57 26 | 44 17 | 29 6 | 11 | 11 | | | | | Δ | * | | |
| 5 | 8 44 28 | 6 27 | 23 18 | 39 8 | 15 | 15 | ♈ Δ h | * | | * | | | | * |
| 6 | 8 43 28 | 14 28 | 2 19 | 50 10 | 20 | 20 | ♈ □ h | | | | | | | |
| 7 | 8 43 28 | 22 28 | 40 21 | 1 12 | 25 | 25 | ♈ * ♈ | | ♈ | | | | □ | |
| 8 | 8 43 28 | 30 29 | 19 22 | 12 14 | 27 | 27 | | □ | | | | | * | □ |
| 9 | 8 42 28 | 37 29 | 58 23 | 22 16 | 29 | 29 | ☉ ♂ ♈ | | | | ♈ | Δ | | |
| 10 | 8 42 28 | 45 0 | ♈ 37 24 | 33 18 | 31 | 31 | | Δ | | ♈ | | | | Δ |
| 11 | 8 42 28 | 52 1 | 16 25 | 43 20 | 32 | 32 | | | | | | | | □ |
| 12 | 8 42 28 | 59 1 | 54 26 | 54 22 | 32 | 32 | | | * | | | | | |
| 13 | 8 42 29 | 6 2 | 32 28 | 4 24 | 30 | 30 | | | | | Δ | ♈ | Δ | |
| 14 | 8 42 29 | 12 3 | 11 29 | 15 26 | 27 | 27 | ♀ Δ ♈ | ♈ | □ | * | | | | |
| 15 | 8 42 29 | 19 3 | 49 0 | ♈ 25 28 | 22 | 22 | | | | | □ | | | ♈ |
| 16 | 8 42 29 | 25 4 | 28 1 | 35 0 | 16 | 16 | ♀ □ ♈ | | Δ | □ | | | | |
| 17 | 8 42 29 | 32 5 | 6 2 | 45 2 | 9 | 9 | | | | | * | Δ | ♈ | |
| 18 | 8 43 29 | 38 5 | 45 3 | 55 4 | 1 | 1 | | | | Δ | | | | |
| 19 | 8 43 29 | 44 6 | 23 5 | 5 5 | 51 | 51 | ♈ * ♈ | Δ | | | | | | |
| 20 | 8 44 29 | 50 7 | 4 6 | 15 7 | 40 | 40 | ♀ □ h | | ♈ | | | | □ | Δ |
| 21 | 8 45 29 | 55 7 | 40 7 | 25 9 | 27 | 27 | ♀ * h | □ | | | | | | |
| 22 | 8 46 0 | 1 8 | 19 8 | 35 11 | 13 | 13 | ♀ * h | | | ♈ | ♈ | * | Δ | □ |
| 23 | 8 47 0 | 6 8 | 57 9 | 45 12 | 53 | 53 | ♈ Δ h | | | | | | | |
| 24 | 8 48 0 | 12 9 | 35 10 | 55 14 | 49 | 49 | ☉ □ ♈ | * | | | | | | |
| 25 | 8 49 0 | 17 10 | 13 12 | 4 16 | 23 | 23 | ♈ □ h | | Δ | | | | | * |
| 26 | 8 50 0 | 21 10 | 52 13 | 14 18 | 3 | 3 | | | | | | | | |
| 27 | 8 52 0 | 26 11 | 30 14 | 23 19 | 43 | 43 | | | □ | Δ | * | | | |
| 28 | 8 53 0 | 30 12 | 8 15 | 32 21 | 21 | 21 | | | | | | | ♈ | * |
| 29 | 8 54 0 | 35 12 | 47 16 | 41 22 | 58 | 58 | | | | | □ | | | |
| 30 | 8 56 0 | 39 13 | 25 17 | 50 24 | 34 | 34 | | ♈ | * | □ | | | | |
| 31 | 8 57 0 | 44 14 | 3 18 | 59 26 | 8 | 8 | | | | | | | | ♈ |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 9 | 17 N 33 | 0 S 32 | 8 S 22 | 0 N 2 | 0 N 67 | 6 57 |
| 4 | 1 10 | 17 0 | 0 44 | 9 50 | 0 N 11 | 1 S 12 | 6 47 |
| 7 | 1 11 | 16 25 | 0 57 | 11 18 | 0 46 | 3 18 | 6 38 |
| 10 | 1 12 | 15 50 | 1 10 | 12 40 | 1 11 | 5 19 | 6 28 |
| 13 | 1 12 | 15 15 | 1 23 | 14 6 | 1 35 | 7 14 | 6 19 |
| 16 | 1 13 | 14 37 | 1 37 | 15 24 | 1 59 | 9 1 | 6 9 |
| 19 | 1 14 | 14 0 | 1 49 | 16 42 | 2 22 | 10 41 | 6 0 |
| 22 | 1 15 | 13 22 | 2 2 | 17 55 | 2 44 | 12 10 | 5 50 |
| 25 | 1 15 | 12 44 | 2 15 | 19 7 | 3 8 | 13 28 | 5 41 |
| 28 | 1 16 | 12 4 | 2 28 | 20 12 | 3 18 | 14 30 | 5 31 |

| D
M | h | z | ♂ | ♀ | ♂ | ♀ | Mutual
Aspt | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|----------------|----------------|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Long. | Long. | | | | | | | |
| 1 | 8 59 | 0 48 | 14 41 | 20 8 | 27 40 | | | | | | | | |
| 2 | 9 1 | 0 51 | 15 19 | 21 17 | 29 12 | | ☉ ☐ | | | | | | |
| 3 | 9 3 | 0 55 | 15 57 | 22 25 | 0 43 | | ☿ ☐ | | | | | | |
| 4 | 9 5 | 0 58 | 16 35 | 23 34 | 3 12 | | ☉ * | | | | | | |
| 5 | 9 7 | 1 1 | 17 13 | 24 42 | 5 40 | | | | | | | | |
| 6 | 9 9 | 1 4 | 17 51 | 25 51 | 8 7 | | | | | | | | |
| 7 | 9 12 | 1 7 | 18 29 | 26 59 | 10 33 | | | | | | | | |
| 8 | 9 14 | 1 9 | 19 7 | 27 7 | 12 56 | | | | | | | | |
| 9 | 9 17 | 1 11 | 19 45 | 27 15 | 15 19 | | ☿ * | | | | | | |
| 10 | 9 20 | 1 13 | 20 23 | 0 28 | 17 41 | | ☿ ☐ | | | | | | |
| 11 | 9 23 | 1 15 | 21 1 | 1 31 | 19 12 | | | | | | | | |
| 12 | 9 25 | 1 17 | 21 39 | 2 39 | 20 20 | | | ☿ | ☐ | ☐ | ☿ | ☐ | |
| 13 | 9 28 | 1 19 | 22 16 | 3 46 | 21 37 | | | ☿ | | | | | |
| 14 | 9 31 | 1 20 | 22 54 | 4 53 | 22 52 | | | | | * | | | |
| 15 | 9 34 | 1 21 | 23 32 | 6 0 | 24 6 | | | | | | ☐ | ☿ | |
| 16 | 9 37 | 1 22 | 24 9 | 7 7 | 25 19 | | | | ☿ | | | | |
| 17 | 9 40 | 1 23 | 24 47 | 8 14 | 26 30 | | | ☐ | | | | ☿ | |
| 18 | 9 43 | 1 23 | 25 25 | 9 21 | 27 39 | | | | | ☐ | | | |
| 19 | 9 47 | 1 23 | 26 2 | 10 26 | 28 45 | | | | ☿ | | | | |
| 20 | 9 51 | 1 23 | 26 40 | 11 34 | 29 49 | | | ☐ | | | * | | ☐ |
| 21 | 9 54 | 1 23 | 27 18 | 12 41 | 30 51 | | | | | ☐ | | | |
| 22 | 9 58 | 1 23 | 27 55 | 13 47 | 31 53 | | | | | | | | |
| 23 | 10 1 | 1 23 | 28 33 | 14 53 | 32 50 | | | * | | | * | | ☐ |
| 24 | 10 5 | 1 22 | 29 11 | 15 59 | 33 46 | | | | ☐ | ☐ | | | ☐ |
| 25 | 10 9 | 1 22 | 29 48 | 16 5 | 34 36 | | ☉ ☐ | | | | ☐ | ☐ | * |
| 26 | 10 13 | 1 21 | 0 26 | 17 10 | 35 24 | | | | | * | ☐ | | |
| 27 | 10 17 | 1 20 | 1 8 | 18 16 | 36 8 | | ☿ ☐ | | | | | | * |
| 28 | 10 21 | 1 18 | 1 41 | 19 21 | 37 49 | | | ☐ | | | | | |
| 29 | 10 25 | 1 17 | 2 18 | 20 27 | 38 26 | | | | | * | | | |
| 30 | 10 29 | 1 15 | 2 55 | 21 32 | 39 58 | | | | | | * | | ☐ |

OCTOBER XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|---|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 21 | 15 S 14 | 1 N 25 | 20 S 39 | 1 S 6 | 19 N 21 |
| 4 | 16 | 1 | 0 21 | 15 17 | 1 25 | 20 41 | 1 6 | 19 19 |
| 7 | 16 | 2 | 0 21 | 15 20 | 1 24 | 20 44 | 1 7 | 19 17 |
| 10 | 16 | 3 | 0 21 | 15 24 | 1 24 | 20 47 | 1 7 | 19 14 |
| 13 | 16 | 4 | 0 21 | 15 27 | 1 23 | 20 49 | 1 7 | 19 11 |
| 16 | 16 | 5 | 0 21 | 15 29 | 1 23 | 20 52 | 1 7 | 19 8 |
| 19 | 16 | 5 | 0 21 | 15 32 | 1 22 | 20 54 | 1 7 | 19 5 |
| 22 | 16 | 6 | 0 21 | 15 35 | 1 22 | 20 56 | 1 7 | 19 1 |
| 25 | 16 | 7 | 0 21 | 15 38 | 1 22 | 20 59 | 1 7 | 18 57 |
| 28 | 16 | 7 | 0 21 | 15 42 | 1 22 | 21 2 | 1 7 | 18 53 |
| 31 | 16 | 8 | 0 21 | 15 46 | 1 21 | 21 4 | 1 7 | 18 49 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♃
Long. |
|--------|--------|-------------------|------------------|-------------|----------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | M | 12 38 13 | 7 Δ 37 43 | 3 S 2 | 11 m 11 | 3 N 5 | 12 S 16 | 12 m 23 |
| 2 | Tu | 12 42 10 | 8 36 50 | 3 25 | 24 34 | 4 0 | 15 3 | 12 26 |
| 3 | W | 12 46 6 | 9 35 59 | 3 48 | 8 \dagger 11 | 4 42 | 17 3 | 12 30 |
| 4 | Th | 12 50 3 | 10 35 9 | 4 12 | 21 59 | 5 8 | 18 5 | 12 33 |
| 5 | F | 12 53 59 | 11 34 22 | 4 35 | 5 v 58 | 5 17 | 18 3 | 12 36 |
| 6 | S | 12 57 56 | 12 33 36 | 4 58 | 20 7 | 5 7 | 16 53 | 12. 40 |
| 7 | S | 13 1 52 | 13 32 52 | 5 21 | 4 m 24 | 4 38 | 14 40 | 12 43 |
| 8 | M | 13 5 49 | 14 32 9 | 5 44 | 18 46 | 3 52 | 11 33 | 12 46 |
| 9 | Tu | 13 9 46 | 15 31 29 | 6 7 | 3 \times 9 | 2 50 | 7 43 | 12 50 |
| 10 | W | 13 13 42 | 16 30 50 | 6 30 | 17 30 | 1 39 | 3 26 | 12 53 |
| 11 | Th | 13 17 39 | 17 30 13 | 6 53 | 1 r 43 | 0 12 | 1 N 1 | 12 57 |
| 12 | F | 13 21 35 | 18 29 39 | 7 15 | 15 45 | 0 8 | 56 5 | 13 0 |
| 13 | S | 13 25 32 | 19 29 6 | 7 38 | 29 32 | 2 9 | 9 19 | 13 4 |
| 14 | S | 13 29 28 | 20 28 35 | 8 0 | 13 δ 1 | 3 13 | 12 42 | 13 7 |
| 15 | M | 13 33 25 | 21 28 6 | 8 23 | 26 9 | 4 4 | 15 21 | 13 11 |
| 16 | Tu | 13 37 21 | 22 27 40 | 8 45 | 8 Π 58 | 4 43 | 17 10 | 13 15 |
| 17 | W | 13 41 18 | 23 27 15 | 9 7 | 21 29 | 5 6 | 18 6 | 13 18 |
| 18 | Th | 13 45 15 | 24 26 53 | 9 29 | 3 Σ 43 | 5 15 | 18 9 | 13 21 |
| 19 | F | 13 49 11 | 25 26 34 | 9 51 | 15 46 | 5 10 | 17 24 | 13 24 |
| 20 | S | 13 53 8 | 26 26 16 | 10 13 | 27 40 | 4 52 | 15 52 | 13 28 |
| 21 | S | 13 57 4 | 27 26 1 | 10 34 | 9 Ω 32 | 4 21 | 13 41 | 13 32 |
| 22 | M | 14 1 1 | 28 25 49 | 10 56 | 21 25 | 3 39 | 10 55 | 13 36 |
| 23 | Tu | 14 4 57 | 29 25 38 | 11 17 | 3 m 24 | 2 47 | 7 40 | 13 40 |
| 24 | W | 14 8 54 | 0 m 25 30 | 11 38 | 15 35 | 1 47 | 4 2 | 13 43 |
| 25 | Th | 14 12 50 | 1 25 24 | 11 59 | 28 0 | 0 41 | 0 10 | 13 46 |
| 26 | F | 14 16 47 | 2 25 20 | 12 20 | 10 Δ 42 | 0 N 29 | 3 S 48 | 13 50 |
| 27 | S | 14 20 44 | 3 25 19 | 12 40 | 23 42 | 1 38 | 7 41 | 13 53 |
| 28 | S | 14 24 40 | 4 25 19 | 13 0 | 7 m 2 | 2 44 | 11 17 | 13 57 |
| 29 | M | 14 28 37 | 5 25 21 | 13 21 | 20 39 | 3 42 | 14 21 | 14 1 |
| 30 | Tu | 14 32 33 | 6 25 25 | 13 40 | 4 \dagger 30 | 4 25 | 16 40 | 14 5 |
| 31 | W | 14 36 30 | 7 25 31 | 14 0 | 18 32 | 4 59 | 18 0 | 14 9 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , |
| 1 | 1 N 17 | 11 N 25 | 2 S 40 | 21 S 17 | 8 S 29 | 15 S 14 | 5 Δ 22 |
| 4 | 1 18 | 10 44 | 2 52 | 22 12 | 8 32 | 15 34 | 5 12 |
| 7 | 1 18 | 10 3 | 3 4 | 23 9 | 3 25 | 15 22 | 5 3 |
| 10 | 1 19 | 9 22 | 3 15 | 24 0 | 3 5 | 14 34 | 4 53 |
| 13 | 1 19 | 8 41 | 3 25 | 24 44 | 2 29 | 13 4 | 4 44 |
| 16 | 1 20 | 7 59 | 3 35 | 25 23 | 1 38 | 11 0 | 4 34 |
| 19 | 1 21 | 7 16 | 3 43 | 25 58 | 0 37 | 8 43 | 4 25 |
| 22 | 1 21 | 6 34 | 3 52 | 26 26 | 0 N 23 | 6 48 | 4 15 |
| 25 | 1 22 | 5 51 | 3 57 | 26 52 | 1 12 | 5 27 | 4 5 |
| 28 | 1 22 | 5 7 | 4 2 | 27 13 | 1 47 | 5 3 | 3 56 |
| 31 | 1 23 | 4 23 | 4 7 | 27 24 | 2 6 | 5 28 | 3 46 |

| D
M | \hbar | | γ | | δ | | ζ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|------------------|-----------------|-----------------|------------------|-----------------|-----------------------------|---------|-------|------------------|----------------|-----------|-----------|-----------|-----------|-----------|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | \odot | \oplus | \hbar | γ | δ | ζ |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , | ° , | | | | | | | |
| 1 | 10 \uparrow 34 | 1 Π 13 | 3 m 33 | 23 m 37 | 1 m 26 | | | | | | \odot | | | | |
| 2 | 10 39 | 1 B 11 | 4 11 | 24 41 | 1 48 | | | | | | | | | δ | \odot |
| 3 | 10 44 | 1 8 | 4 46 | 25 45 | 2 4 | | | | | * | | \odot | | \square | |
| 4 | 10 48 | 1 5 | 5 26 | 26 49 | 2 12 | \odot * \hbar | | | | \square | * | | | Δ | * |
| 5 | 10 53 | 1 2 | 6 3 | 27 53 | 2 B 14 | | | | | \square | * | | | Δ | * |
| 6 | 10 57 | 0 59 | 6 40 | 28 57 | 2 9 | | | | | | | | | | |
| 7 | 11 2 | 0 56 | 7 17 | 0 \uparrow 0 | 1 58 | | | | | | | * | Δ | | * |
| 8 | 11 7 | 0 52 | 7 55 | 1 3 | 1 39 | γ δ γ | | | | Δ | \square | | | | \square |
| 9 | 11 12 | 0 48 | 8 32 | 2 5 | 1 11 | | | | | | | | \square | δ | \square |
| 10 | 11 17 | 0 44 | 9 9 | 3 8 | 0 38 | | | | | | Δ | \square | | | Δ |
| 11 | 11 22 | 0 40 | 9 46 | 4 10 | 29 Δ 47 | | | | | | | | * | | Δ |
| 12 | 11 27 | 0 36 | 10 23 | 5 13 | 28 55 | | | | | δ | | Δ | | | |
| 13 | 11 32 | 0 32 | 11 0 | 6 15 | 27 57 | | | | | | | | | | δ |
| 14 | 11 37 | 0 27 | 11 37 | 7 16 | 26 51 | δ \square \hbar | | | | | δ | | | Δ | |
| 15 | 11 42 | 0 23 | 12 14 | 8 17 | 25 41 | | | | | | | | \odot | | |
| 16 | 11 48 | 0 18 | 12 51 | 9 17 | 24 27 | δ * H | | | | | | δ | | \square | δ |
| 17 | 11 53 | 0 13 | 13 28 | 10 18 | 23 13 | \odot \odot γ | | | | Δ | | | | | Δ |
| 18 | 11 58 | 0 8 | 14 5 | 11 16 | 22 0 | | | | | | | | | | |
| 19 | 12 4 | 0 3 | 14 42 | 12 17 | 20 50 | γ \odot \hbar | | | | | Δ | | | * | \square |
| 20 | 12 9 | 29 \times 57 | 15 19 | 13 16 | 19 45 | | | | | \square | | | * | | |
| 21 | 12 15 | 29 51 | 15 56 | 14 14 | 18 49 | | | | | | \square | Δ | | | Δ |
| 22 | 12 21 | 29 45 | 16 32 | 15 13 | 18 1 | | | | | * | | | | | * |
| 23 | 12 27 | 29 39 | 17 9 | 16 11 | 17 23 | | | | | | * | | \square | \odot | |
| 24 | 12 33 | 29 33 | 17 46 | 17 9 | 16 56 | | | | | | * | \square | | \odot | \square |
| 25 | 12 39 | 29 27 | 18 22 | 18 7 | 16 41 | | | | | | | | Δ | | |
| 26 | 12 45 | 29 20 | 18 59 | 19 4 | 16 D 87 | γ \square δ | | | | | | * | | | \odot |
| 27 | 12 51 | 29 14 | 19 36 | 20 0 | 16 44 | | | | | | | | | | * |
| 28 | 12 57 | 29 7 | 20 12 | 20 55 | 17 2 | | | | | \odot | \odot | | | | |
| 29 | 13 3 | 29 0 | 20 49 | 21 50 | 17 30 | | | | | | | | | * | |
| 30 | 13 9 | 28 53 | 21 26 | 22 44 | 18 7 | | | | | | | | δ | | |
| 31 | 13 15 | 28 46 | 22 3 | 23 87 | 18 53 | | | | | | | | \odot | \square | * |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 21 | 15 S 47 | 1 N 21 | 21 S 5 | 1 S 7 | 18 N 47 |
| 4 | 16 | 10 | 0 21 | 15 50 | 1 21 | 21 8 | 1 7 | 18 42 |
| 7 | 16 | 11 | 0 21 | 15 54 | 1 20 | 21 11 | 1 7 | 18 37 |
| 10 | 16 | 12 | 0 21 | 15 58 | 1 20 | 21 14 | 1 7 | 18 32 |
| 18 | 16 | 12 | 0 21 | 16 1 | 1 19 | 21 16 | 1 7 | 18 27 |
| 16 | 16 | 13 | 0 21 | 16 4 | 1 19 | 21 19 | 1 6 | 18 21 |
| 19 | 16 | 14 | 0 21 | 16 7 | 1 19 | 21 21 | 1 6 | 18 16 |
| 22 | 16 | 14 | 0 21 | 16 10 | 1 19 | 21 24 | 1 6 | 18 11 |
| 25 | 16 | 15 | 0 21 | 16 13 | 1 18 | 21 26 | 1 5 | 18 5 |
| 28 | 16 | 15 | 0 21 | 16 16 | 1 18 | 21 28 | 1 5 | 18 0 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|----------------------|--------------|--------------------|-----------|--------------|--------------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | Th | 14 | 40 | 26 | 8 ^m 25 38 | 14 S 20 | 2 ^w 42 | 5 N 11 | 18 S 15 | 14 ^m 13 |
| 2 | F | 14 | 44 | 23 | 9 25 47 | 14 39 | 16 55 | 5 5 | 17 21 | 14 17 |
| 3 | S | 14 | 48 | 19 | 10 25 58 | 14 58 | 1 ^m 7 | 4 40 | 15 22 | 14 20 |
| 4 | S | 14 | 52 | 16 | 11 26 10 | 15 17 | 15 18 | 3 58 | 12 28 | 14 24 |
| 5 | M | 14 | 56 | 12 | 12 26 24 | 15 35 | 29 24 | 3 2 | 8 51 | 14 28 |
| 6 | Tu | 15 | 0 | 9 | 13 26 39 | 15 53 | 13 ^x 24 | 1 55 | 4 45 | 14 32 |
| 7 | W | 15 | 4 | 6 | 14 26 55 | 16 11 | 27 18 | 0 42 | 0 26 | 14 36 |
| 8 | Th | 15 | 8 | 2 | 15 27 14 | 16 29 | 11 ^r 3 | 0 S 32 | 3 N 53 | 14 40 |
| 9 | F | 15 | 11 | 59 | 16 27 33 | 16 46 | 24 39 | 1 44 | 7 57 | 14 43 |
| 10 | S | 15 | 15 | 55 | 17 27 54 | 17 4 | 8 ^o 4 | 2 49 | 11 32 | 14 46 |
| 11 | S | 15 | 19 | 52 | 18 28 17 | 17 20 | 21 15 | 3 44 | 14 29 | 14 50 |
| 12 | M | 15 | 23 | 48 | 19 28 42 | 17 37 | 4 [□] 12 | 4 25 | 16 39 | 14 54 |
| 13 | Tu | 15 | 27 | 45 | 20 29 8 | 17 53 | 16 54 | 4 53 | 17 57 | 14 58 |
| 14 | W | 15 | 31 | 41 | 21 29 36 | 18 9 | 29 21 | 5 6 | 18 21 | 15 1 |
| 15 | Th | 15 | 35 | 38 | 22 30 6 | 18 25 | 11 [☿] 34 | 5 5 | 17 53 | 15 5 |
| 16 | F | 15 | 39 | 35 | 23 30 37 | 18 40 | 23 36 | 4 50 | 16 38 | 15 9 |
| 17 | S | 15 | 43 | 31 | 24 31 11 | 18 55 | 5 ^Ω 30 | 4 23 | 14 40 | 15 12 |
| 18 | S | 15 | 47 | 28 | 25 31 46 | 19 9 | 17 20 | 3 45 | 12 5 | 15 16 |
| 19 | M | 15 | 51 | 24 | 26 32 23 | 19 24 | 29 12 | 2 57 | 9 0 | 15 20 |
| 20 | Tu | 15 | 55 | 21 | 27 33 2 | 19 38 | 11 ^m 10 | 2 0 | 5 32 | 15 24 |
| 21 | W | 15 | 59 | 17 | 28 33 43 | 19 51 | 23 20 | 0 58 | 1 46 | 15 28 |
| 22 | Th | 16 | 3 | 14 | 29 34 25 | 20 5 | 5 [△] 47 | 0 N 9 | 2 S 10 | 16 32 |
| 23 | F | 16 | 7 | 11 | 0 [†] 35 9 | 20 18 | 18 34 | 1 17 | 6 6 | 15 35 |
| 24 | S | 16 | 11 | 7 | 1 35 54 | 20 30 | 1 ^m 46 | 2 22 | 9 52 | 15 39 |
| 25 | S | 16 | 15 | 4 | 2 36 42 | 20 42 | 15 22 | 3 22 | 13 14 | 15 43 |
| 26 | M | 16 | 19 | 0 | 3 37 30 | 20 54 | 29 22 | 4 11 | 15 57 | 15 47 |
| 27 | Tu | 16 | 22 | 57 | 4 38 20 | 21 5 | 13 [†] 41 | 4 45 | 17 44 | 15 50 |
| 28 | W | 16 | 26 | 53 | 5 39 11 | 21 16 | 28 14 | 5 2 | 18 25 | 15 54 |
| 29 | Th | 16 | 30 | 50 | 6 40 3 | 21 27 | 12 ^w 52 | 4 59 | 17 52 | 15 58 |
| 30 | F | 16 | 34 | 46 | 7 40 56 | 21 37 | 27 29 | 4 37 | 16 9 | 16 1 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 23 | 4 N 11 | 4 S 7 | 27 S 27 | 2 N 10 | 5 S 44 | 3 ♌ 43 |
| 4 | 1 24 | 3 28 | 4 8 | 27 35 | 2 13 | 6 54 | 3 33 |
| 7 | 1 24 | 2 46 | 4 8 | 27 36 | 2 8 | 8 24 | 3 24 |
| 10 | 1 25 | 2 3 | 4 6 | 27 35 | 1 57 | 10 5 | 3 14 |
| 13 | 1 25 | 1 20 | 4 2 | 27 26 | 1 41 | 11 51 | 3 5 |
| 16 | 1 26 | 0 40 | 3 54 | 27 16 | 1 23 | 13 38 | 2 55 |
| 19 | 1 26 | 0 S 5 | 3 47 | 26 59 | 1 4 | 15 22 | 2 46 |
| 22 | 1 26 | 0 47 | 3 34 | 26 41 | 0 43 | 17 2 | 2 36 |
| 25 | 1 26 | 1 29 | 3 20 | 26 17 | 0 22 | 18 35 | 2 27 |
| 28 | 1 27 | 2 16 | 2 57 | 25 52 | 0 2 | 20 0 | 2 17 |

| D
M | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 13 ♏ 21 | 28 ♂ 39 | 22 ♍ 39 | 24 ♏ 30 | 19 ♎ 46 | | | * | | | | | | |
| 2 | 13 27 | 28 ♀ 32 | 23 16 | 25 23 | 20 42 | | | | * | | | Δ | | □ |
| 3 | 13 33 | 28 24 | 23 52 | 26 15 | 21 47 | | | | | | Δ | | | |
| 4 | 13 39 | 28 17 | 24 29 | 27 7 | 23 1 | | | □ | □ | * | | | | |
| 5 | 13 46 | 28 9 | 25 5 | 27 58 | 24 17 | | | | | | □ | | * | Δ |
| 6 | 13 52 | 28 2 | 25 42 | 28 48 | 25 35 | | | Δ | Δ | □ | | | | |
| 7 | 13 59 | 27 54 | 26 18 | 29 37 | 26 55 | ☉ ♂ ☿ | | | | | * | ♏ | □ | |
| 8 | 14 5 | 27 46 | 26 55 | 0 ♋ 25 | 28 18 | | | | | Δ | | | | |
| 9 | 14 12 | 27 38 | 27 31 | 1 12 | 29 44 | ♏ Δ ♋ | | | | | | | | ♏ |
| 10 | 14 19 | 27 30 | 28 7 | 1 58 | 1 ♋ 13 | | | | ♏ | | | | Δ | |
| 11 | 14 25 | 27 22 | 28 43 | 2 43 | 2 43 | ♏ * ♏ | | ♏ | | | | ♏ | | |
| 12 | 14 32 | 27 14 | 29 19 | 3 28 | 4 14 | | | ♏ | | | | | Δ | |
| 13 | 14 39 | 27 6 | 29 55 | 4 12 | 5 45 | | | | | ♏ | | | | |
| 14 | 14 46 | 26 58 | 0 ♌ 32 | 4 55 | 7 18 | | | | | | | □ | | |
| 15 | 14 53 | 26 50 | 1 8 | 5 37 | 8 51 | | | | Δ | | | | ♏ | Δ |
| 16 | 14 59 | 26 42 | 1 44 | 6 18 | 10 25 | | | Δ | | | * | | | |
| 17 | 15 6 | 26 34 | 2 20 | 6 57 | 11 59 | | | | □ | | | * | | |
| 18 | 15 12 | 26 26 | 2 56 | 7 35 | 13 33 | ♏ ♂ ☿ | | | | Δ | | | | □ |
| 19 | 15 19 | 26 17 | 3 32 | 8 11 | 15 8 | ☉ ♏ ♋ | | □ | | | □ | | | |
| 20 | 15 26 | 26 9 | 4 8 | 8 46 | 16 42 | | | | * | □ | | | Δ | |
| 21 | 15 33 | 26 1 | 4 44 | 9 20 | 18 16 | | | * | | | | Δ | | * |
| 22 | 15 40 | 25 53 | 5 19 | 9 53 | 19 51 | | | | | | | | ♏ | □ |
| 23 | 15 47 | 25 41 | 5 55 | 10 24 | 21 26 | | | | | * | | | | |
| 24 | 15 54 | 25 37 | 6 31 | 10 54 | 23 1 | | | | | | | | | |
| 25 | 16 1 | 25 28 | 7 6 | 11 23 | 24 86 | ♏ ♏ ♋ | | | ♏ | | | | * | |
| 26 | 16 8 | 25 20 | 7 42 | 11 50 | 26 11 | | | ♏ | | | ♏ | | * | ♏ |
| 27 | 16 15 | 25 12 | 8 18 | 12 15 | 27 45 | | | | | ♏ | | | * | |
| 28 | 16 22 | 25 4 | 8 53 | 12 38 | 29 19 | | | | | | | | | |
| 29 | 16 29 | 24 56 | 9 29 | 12 59 | 0 ♏ 54 | | | * | | | | □ | ♏ | |
| 30 | 16 36 | 24 48 | 10 5 | 13 18 | 2 28 | | | | | | Δ | | | * |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 21 | 16 8 19 | 1 N 18 | 21 S 30 | 1 8 4 | 17 N 55 |
| 4 | 16 | 15 | 0 21 | 16 22 | 1 18 | 21 32 | 1 4 | 17 50 |
| 7 | 16 | 16 | 0 21 | 16 25 | 1 18 | 21 35 | 1 3 | 17 45 |
| 10 | 16 | 16 | 0 21 | 16 29 | 1 18 | 21 37 | 1 3 | 17 41 |
| 13 | 16 | 16 | 0 21 | 16 31 | 1 17 | 21 39 | 1 2 | 17 37 |
| 16 | 16 | 16 | 0 21 | 16 34 | 1 17 | 21 41 | 1 1 | 17 33 |
| 19 | 16 | 17 | 0 21 | 16 36 | 1 17 | 21 43 | 1 0 | 17 29 |
| 22 | 16 | 17 | 0 21 | 16 38 | 1 17 | 21 45 | 1 0 | 17 26 |
| 25 | 16 | 17 | 0 21 | 16 41 | 1 17 | 21 47 | 0 59 | 17 23 |
| 28 | 16 | 17 | 0 21 | 16 44 | 1 17 | 21 49 | 0 59 | 17 20 |
| 31 | 16 | 17 | 0 21 | 16 46 | 1 17 | 21 51 | 0 58 | 17 18 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 16 38 43 | 8 41 50 | 21 S 46 | 11 59 | 3 N 57 | 13 S 25 | 16 m 4 |
| 2 | S | 16 42 40 | 9 42 45 | 21 56 | 26 16 | 3 3 | 9 54 | 16 7 |
| 3 | M | 16 46 36 | 10 43 40 | 22 5 | 10 21 | 1 58 | 5 53 | 16 11 |
| 4 | Tu | 16 50 33 | 11 44 36 | 22 13 | 24 11 | 0 47 | 1 36 | 16 15 |
| 5 | W | 16 54 29 | 12 45 33 | 22 21 | 7 47 | 0 8 25 | 2 N 42 | 16 18 |
| 6 | Th | 16 58 26 | 13 46 31 | 22 28 | 21 10 | 1 35 | 6 48 | 16 22 |
| 7 | F | 17 2 22 | 14 47 29 | 22 36 | 4 22 | 2 38 | 10 30 | 16 25 |
| 8 | S | 17 6 17 | 15 48 29 | 22 42 | 17 23 | 3 32 | 13 39 | 16 29 |
| 9 | S | 17 10 15 | 16 49 29 | 22 49 | 0 13 | 4 14 | 16 4 | 16 33 |
| 10 | M | 17 14 12 | 17 50 29 | 22 54 | 12 53 | 4 43 | 17 41 | 16 36 |
| 11 | Tu | 17 18 9 | 18 51 30 | 23 0 | 25 22 | 4 58 | 18 25 | 16 38 |
| 12 | W | 17 22 5 | 19 52 32 | 23 4 | 7 39 | 4 59 | 18 16 | 16 41 |
| 13 | Th | 17 26 2 | 20 53 35 | 23 9 | 19 47 | 4 46 | 17 17 | 16 44 |
| 14 | F | 17 29 58 | 21 54 39 | 23 13 | 1 45 | 4 21 | 15 33 | 16 47 |
| 15 | S | 17 33 55 | 22 55 44 | 23 16 | 13 37 | 3 44 | 13 10 | 16 50 |
| 16 | S | 17 37 51 | 23 56 49 | 23 19 | 25 26 | 2 58 | 10 16 | 16 53 |
| 17 | M | 17 41 48 | 24 57 55 | 23 22 | 7 15 | 2 4 | 6 56 | 16 56 |
| 18 | Tu | 17 45 44 | 25 59 2 | 23 24 | 19 11 | 1 4 | 3 18 | 16 59 |
| 19 | W | 17 49 41 | 27 0 11 | 23 26 | 1 18 | 0 0 | 0 S 31 | 17 3 |
| 20 | Th | 17 53 38 | 28 1 20 | 23 27 | 13 41 | 1 N 5 | 4 24 | 17 7 |
| 21 | F | 17 57 34 | 29 2 29 | 23 27 | 25 27 | 2 9 | 8 13 | 17 10 |
| 22 | S | 18 1 31 | 0 3 39 | 23 28 | 9 39 | 3 8 | 11 45 | 17 13 |
| 23 | S | 18 5 27 | 1 4 50 | 23 27 | 23 19 | 3 58 | 14 47 | 17 16 |
| 24 | M | 18 9 24 | 2 6 1 | 23 27 | 7 29 | 4 36 | 17 2 | 17 19 |
| 25 | Tu | 18 13 21 | 3 7 13 | 23 25 | 22 4 | 4 57 | 18 17 | 17 22 |
| 26 | W | 18 17 18 | 4 8 25 | 23 24 | 6 58 | 4 58 | 18 19 | 17 24 |
| 27 | Th | 18 21 15 | 5 9 37 | 23 22 | 22 1 | 4 39 | 17 4 | 17 27 |
| 28 | F | 18 25 12 | 6 10 49 | 23 19 | 7 5 | 4 1 | 14 38 | 17 30 |
| 29 | S | 18 29 9 | 7 12 2 | 23 16 | 21 58 | 3 6 | 11 15 | 17 33 |
| 30 | S | 18 33 6 | 8 13 14 | 23 12 | 6 34 | 2 0 | 7 15 | 17 36 |
| 31 | M | 18 37 3 | 9 14 25 | 23 8 | 20 50 | 0 48 | 2 54 | 17 38 |

DECEMBER XXXI DAYS.

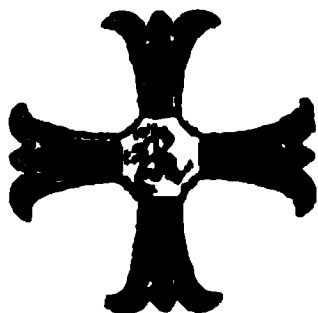
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 1 N 27 | 2 S 53 | 2 S 39 | 25 S 24 | 0 S 19 | 21 S 17 | 2 ♄ 8 |
| 4 | 1 28 | 3 34 | 2 5 | 24 52 | 0 38 | 22 25 | 1 58 |
| 7 | 1 28 | 4 16 | 1 42 | 24 22 | 0 56 | 23 22 | 1 49 |
| 10 | 1 28 | 4 56 | 1 5 | 23 47 | 1 13 | 24 9 | 1 39 |
| 13 | 1 28 | 5 35 | 0 29 | 23 12 | 1 29 | 24 45 | 1 30 |
| 16 | 1 28 | 6 15 | 0 N 12 | 22 20 | 1 42 | 25 9 | 1 20 |
| 19 | 1 28 | 6 54 | 0 58 | 21 57 | 1 54 | 25 20 | 1 11 |
| 22 | 1 29 | 7 32 | 1 45 | 21 10 | 2 2 | 25 18 | 1 1 |
| 25 | 1 29 | 8 10 | 2 32 | 20 38 | 2 8 | 25 2 | 0 52 |
| 28 | 1 29 | 8 45 | 3 8 | 19 57 | 2 10 | 24 32 | 0 42 |
| 31 | 1 29 | 9 20 | 3 40 | 19 22 | 2 8 | 23 48 | 0 33 |

| D
M | ♄ | ♀ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 16 ♄ 43 | 24 ♀ 41 | 10 ♄ 40 | 13 ♀ 34 | 4 ♄ 3 | | * □ | * | | Δ | | | |
| 2 | 16 50 24 | ♂ 33 11 | 16 13 | 48 5 | 37 | | | | □ | | | | |
| 3 | 16 57 24 | 26 11 | 51 14 | 0 7 | 11 | | □ Δ | □ | | | * | □ | |
| 4 | 17 4 24 | 18 12 | 26 14 | 11 8 | 45 | | | | * | | | | |
| 5 | 17 11 24 | 11 13 | 2 14 | 20 10 | 20 | | Δ | | | ♂ | □ | Δ | |
| 6 | 17 18 24 | 3 13 | 37 14 | 27 11 | 54 | ☉ * ♂ | | | Δ | | | | |
| 7 | 17 25 23 | 56 14 | 12 14 | 32 13 | 28 | | | ♂ | | ♂ | | Δ | |
| 8 | 17 32 23 | 49 14 | 47 14 | 34 15 | 8 | ♀ * ♂ | | | | | | | |
| 9 | 17 39 23 | 42 15 | 22 14 | ♂ 34 16 | 37 | ☉ ♂ ♀ | ♂ | | ♂ | | Δ | | ♂ |
| 10 | 17 46 23 | 35 15 | 57 14 | 31 18 | 11 | ☉ ♂ ♄ | ♂ | | ♂ | | | | |
| 11 | 17 53 23 | 28 16 | 32 14 | 25 19 | 46 | ♀ ♂ ♄ | | | | | | | |
| 12 | 18 0 23 | 21 17 | 7 14 | 16 21 | 20 | | | | | | | | |
| 13 | 18 8 23 | 15 17 | 42 14 | 3 22 | 55 | | | Δ | | * | □ | ♂ | |
| 14 | 18 15 23 | 9 18 | 17 13 | 48 24 | 30 | ♂ * ♄ | | | | | | | |
| 15 | 18 22 23 | 3 18 | 51 13 | 31 26 | 5 | | □ | Δ | | * | | | |
| 16 | 18 29 22 | 58 19 | 26 13 | 12 27 | 40 | | Δ | | | □ | | | Δ |
| 17 | 18 36 22 | 52 20 | 0 12 | 52 29 | 15 | | | | * | □ | | Δ | |
| 18 | 18 43 22 | 46 20 | 35 12 | 30 0 | ♂ 50 | | | * | □ | Δ | | | |
| 19 | 18 50 22 | 41 21 | 9 12 | 6 2 | 26 | | □ | | * | | | | □ |
| 20 | 18 57 22 | 36 21 | 43 11 | 40 4 | 2 | | | | * | | | □ | |
| 21 | 19 4 22 | 31 22 | 18 11 | 12 5 | 38 | | * | | | | ♂ | | |
| 22 | 19 11 22 | 26 22 | 52 10 | 42 7 | 14 | | | ♂ | | ♂ | | * | * |
| 23 | 19 18 22 | 21 23 | 27 10 | 10 8 | 50 | | | | | | | | |
| 24 | 19 25 22 | 16 24 | 1 9 | 35 10 | 26 | ♀ ♂ ♀ | | | ♂ | | * | | |
| 25 | 19 33 22 | 11 24 | 35 8 | 59 12 | 3 | | | | ♂ | | | | |
| 26 | 19 40 22 | 7 25 | 9 8 | 22 13 | 39 | | ♂ | | | | | ♂ | ♂ |
| 27 | 19 47 22 | 3 25 | 43 7 | 44 15 | 16 | | | * | | Δ | □ | | |
| 28 | 19 54 21 | 59 26 | 17 7 | 6 16 | 53 | ♀ * ♄ | | | | | | | |
| 29 | 20 0 21 | 55 26 | 51 6 | 29 18 | 30 | ☉ ♂ ♀ | | □ | * | □ | Δ | | |
| 30 | 20 7 21 | 52 27 | 25 5 | 54 20 | 7 | | * | | | | | * | |
| 31 | 20 14 21 | 49 27 | 59 5 | 20 21 | 44 | ♀ Δ ♄ | | Δ | □ | * | | | * |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1811.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

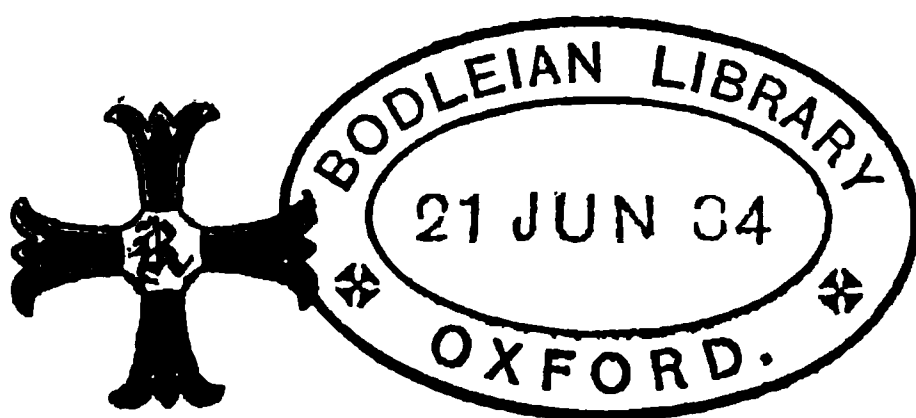
(Alm.) 93.9 c. 15.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1811.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 21 | 16 S 47 | 1 N 17 | 21 S 50 | 0 S 57 | 17 N 18 |
| 4 | 16 | 15 | 0 21 | 16 50 | 1 17 | 21 52 | 0 56 | 17 17 |
| 7 | 16 | 16 | 0 21 | 16 53 | 1 16 | 21 53 | 0 55 | 17 16 |
| 10 | 16 | 16 | 0 21 | 16 55 | 1 16 | 21 54 | 0 55 | 17 16 |
| 13 | 16 | 17 | 0 21 | 16 56 | 1 16 | 21 56 | 0 54 | 17 16 |
| 16 | 16 | 17 | 0 21 | 16 57 | 1 16 | 21 57 | 0 53 | 17 16 |
| 19 | 16 | 17 | 0 21 | 16 59 | 1 16 | 21 58 | 0 52 | 17 17 |
| 22 | 16 | 18 | 0 21 | 17 0 | 1 16 | 21 59 | 0 51 | 17 19 |
| 25 | 16 | 18 | 0 21 | 17 1 | 1 17 | 22 0 | 0 50 | 17 21 |
| 28 | 16 | 18 | 0 21 | 17 2 | 1 17 | 22 1 | 0 50 | 17 23 |
| 31 | 16 | 18 | 0 21 | 17 3 | 1 17 | 22 2 | 0 49 | 17 26 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 18 41 0 | 10 w 15 37 | 23 S 4 | 4 r 44 | 0 S 25 | 1 N 30 | 17 m 41 |
| 2 | W | 18 44 56 | 11 16 48 | 22 59 | 18 17 | 1 85 | 5 42 | 17 44 |
| 3 | Th | 18 48 53 | 12 17 59 | 22 54 | 1 s 31 | 2 89 | 9 32 | 17 46 |
| 4 | F | 18 52 49 | 13 19 9 | 22 48 | 14 28 | 3 32 | 12 49 | 17 48 |
| 5 | S | 18 56 46 | 14 20 19 | 22 41 | 27 12 | 4 14 | 15 25 | 17 51 |
| 6 | S | 19 0 42 | 15 21 28 | 22 35 | 9 □ 44 | 4 43 | 17 16 | 17 53 |
| 7 | M | 19 4 39 | 16 22 38 | 22 27 | 22 7 | 4 59 | 18 15 | 17 57 |
| 8 | Tu | 19 8 36 | 17 23 46 | 22 20 | 4 ☽ 21 | 5 0 | 18 24 | 17 59 |
| 9 | W | 19 12 33 | 18 24 54 | 22 12 | 16 27 | 4 47 | 17 42 | 18 1 |
| 10 | Th | 19 16 29 | 19 26 2 | 22 3 | 28 27 | 4 22 | 16 12 | 18 3 |
| 11 | F | 19 20 25 | 20 27 10 | 21 54 | 10 ♄ 21 | 3 46 | 14 2 | 18 5 |
| 12 | S | 19 24 22 | 21 28 17 | 21 45 | 22 10 | 3 0 | 11 18 | 18 7 |
| 13 | S | 19 28 18 | 22 29 24 | 21 35 | 3 m 59 | 2 5 | 8 6 | 18 9 |
| 14 | M | 19 32 15 | 23 30 30 | 21 25 | 15 48 | 1 6 | 4 35 | 18 11 |
| 15 | Tu | 19 36 11 | 24 31 37 | 21 14 | 27 43 | 0 3 | 0 52 | 18 13 |
| 16 | W | 19 40 8 | 25 32 43 | 21 3 | 9 ♄ 48 | 1 N 1 | 2 S 57 | 18 15 |
| 17 | Th | 19 44 5 | 26 33 48 | 20 52 | 22 9 | 2 4 | 6 43 | 18 17 |
| 18 | F | 19 48 1 | 27 34 54 | 20 40 | 4 m 49 | 3 3 | 10 16 | 18 19 |
| 19 | S | 19 51 58 | 28 35 59 | 20 28 | 17 54 | 3 54 | 18 27 | 18 21 |
| 20 | S | 19 55 54 | 29 37 3 | 20 15 | 1 f 29 | 4 33 | 16 0 | 18 23 |
| 21 | M | 19 59 51 | 0 m 38 7 | 20 2 | 15 33 | 4 58 | 17 44 | 18 24 |
| 22 | Tu | 20 3 47 | 1 39 11 | 19 49 | 0 w 6 | 5 5 | 18 22 | 18 25 |
| 23 | W | 20 7 44 | 2 40 14 | 19 35 | 15 3 | 4 52 | 17 46 | 18 27 |
| 24 | Th | 20 11 41 | 3 41 16 | 19 21 | 0 m 16 | 4 18 | 15 55 | 18 28 |
| 25 | F | 20 15 37 | 4 42 16 | 19 6 | 15 34 | 3 25 | 12 55 | 18 30 |
| 26 | S | 20 19 34 | 5 43 17 | 18 52 | 0 x 45 | 2 18 | 9 4 | 18 31 |
| 27 | S | 20 23 30 | 6 44 15 | 18 36 | 15 41 | 1 8 | 4 41 | 18 33 |
| 28 | M | 20 27 27 | 7 45 13 | 18 21 | 0 r 14 | 0 S 15 | 0 9 | 18 34 |
| 29 | Tu | 20 31 23 | 8 46 10 | 18 5 | 14 22 | 1 31 | 4 N 17 | 18 36 |
| 30 | W | 20 35 20 | 9 47 5 | 17 49 | 28 4 | 2 38 | 8 20 | 18 37 |
| 31 | Th | 20 39 16 | 10 47 59 | 17 32 | 11 s 20 | 3 35 | 11 50 | 18 39 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ' |
| 1 | 1 N 29 | 9 S 35 | 4 N 12 | 19 S 10 | 2 S 6 | 23 S 31 | 1 29 |
| 4 | 1 29 | 10 10 | 4 46 | 18 40 | 1 57 | 22 28 | 0 19 |
| 7 | 1 29 | 10 44 | 5 17 | 18 10 | 1 43 | 21 13 | 0 10 |
| 10 | 1 29 | 11 17 | 5 37 | 17 49 | 1 20 | 19 48 | 0 0 |
| 13 | 1 29 | 11 51 | 5 56 | 17 32 | 0 50 | 18 16 | 29 41 |
| 16 | 1 28 | 12 22 | 6 8 | 17 26 | 0 11 | 16 45 | 29 32 |
| 19 | 1 28 | 12 54 | 6 12 | 17 16 | 0 N 36 | 15 22 | 29 22 |
| 22 | 1 27 | 13 24 | 6 11 | 17 20 | 1 29 | 14 20 | 29 18 |
| 25 | 1 27 | 13 54 | 6 10 | 17 18 | 2 22 | 13 48 | 29 3 |
| 28 | 1 26 | 14 22 | 6 2 | 17 24 | 3 6 | 13 50 | 28 54 |
| 31 | 1 26 | 14 50 | 5 52 | 17 33 | 3 35 | 14 20 | |

| D
M | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|---------|-------|--------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 20 20 | 21 45 | 22 32 | 4 48 | 23 20 | | | ☐ | | | | | ☐ | |
| 2 | 20 27 | 21 42 | 29 6 | 4 12 | 24 57 | | | | | Δ | | | | |
| 3 | 20 34 | 21 40 | 29 39 | 3 38 | 26 33 | | | | | | | ♂ | Δ | ☐ |
| 4 | 20 41 | 21 37 | 0 12 | 3 6 | 28 7 | | | Δ | ♂ | | | | | |
| 5 | 20 48 | 21 35 | 0 45 | 2 36 | 29 40 | | | | | | ♂ | | | Δ |
| 6 | 20 55 | 21 32 | 1 18 | 2 7 | 1 13 | ♂ ☐ ♂ | | | | | | | | |
| 7 | 21 1 | 21 30 | 1 51 | 1 39 | 2 45 | ♀ * ♂ | | | | | | | | |
| 8 | 21 8 | 21 28 | 2 24 | 1 12 | 4 15 | | | | | | | | | |
| 9 | 21 15 | 21 27 | 2 57 | 0 48 | 5 43 | ☉ * ☿ | ♂ | | | | | | | |
| 10 | 21 21 | 21 26 | 3 29 | 0 27 | 7 8 | | | | | | | | | |
| 11 | 21 28 | 21 25 | 4 2 | 0 9 | 8 30 | | | | | | | | | |
| 12 | 21 34 | 21 24 | 4 35 | 29 54 | 9 49 | ☉ Δ ♈ | | | | | | | | |
| 13 | 21 40 | 21 23 | 5 7 | 29 42 | 11 4 | | | | | | | | | |
| 14 | 21 47 | 21 23 | 5 39 | 29 25 | 12 14 | | | | | | | | | |
| 15 | 21 53 | 21 23 | 6 11 | 29 12 | 13 18 | | | Δ | | | | | | |
| 16 | 22 0 | 21 D 23 | 6 43 | 29 4 | 14 16 | | | | | | | | | |
| 17 | 22 6 | 21 23 | 7 15 | 29 D 2 | 15 7 | | | ☐ | | | | | | |
| 18 | 22 12 | 21 23 | 7 47 | 29 5 | 15 50 | | | | | | | | | |
| 19 | 22 18 | 21 23 | 8 19 | 29 12 | 16 24 | | | | | | | | | |
| 20 | 22 24 | 21 24 | 8 51 | 29 20 | 16 48 | ☉ ♂ ♀ | * | | | | | | | |
| 21 | 22 30 | 21 25 | 9 22 | 29 29 | 17 1 | | | | | ♂ | | | | * |
| 22 | 22 36 | 21 26 | 9 54 | 29 38 | 17 3 | | | | | | | | ♂ | * |
| 23 | 22 42 | 21 27 | 10 25 | 29 48 | 16 53 | | | | * | | Δ | | | |
| 24 | 22 48 | 21 28 | 10 57 | 29 58 | 16 32 | | | ♂ | | | | | | |
| 25 | 22 54 | 21 30 | 11 28 | 0 9 | 16 1 | | | | ☐ | | ☐ | ☐ | | ♂ |
| 26 | 22 0 | 21 32 | 11 59 | 0 22 | 15 20 | | | | | * | | | | * |
| 27 | 22 6 | 21 34 | 12 30 | 0 38 | 14 28 | | | | Δ | | * | Δ | | * |
| 28 | 22 12 | 21 37 | 13 0 | 0 58 | 13 26 | ♂ ☐ ♂ | | | | ☐ | | | ☐ | * |
| 29 | 22 17 | 21 39 | 13 31 | 1 22 | 12 17 | | | * | | | | | | * |
| 30 | 22 23 | 21 42 | 14 1 | 1 49 | 11 6 | ☉ ♂ ♀ | | | | Δ | | | Δ | |
| 31 | 22 29 | 21 45 | 14 32 | 2 17 | 9 35 | | | ☐ | | | | ♂ | | ☐ |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupi. | |
|--------|-------------------|----|-----------|---------|---------|---------|--------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 21 | 17 8 3 | 1 N 16 | 22 8 2 | 0 8 49 | |
| 4 | 16 | 15 | 0 21 | 17 4 | 1 16 | 22 3 | 0 48 | |
| 7 | 16 | 14 | 0 21 | 17 5 | 1 16 | 22 3 | 0 47 | |
| 10 | 16 | 14 | 0 21 | 17 6 | 1 16 | 22 4 | 0 46 | |
| 13 | 16 | 13 | 0 21 | 17 6 | 1 17 | 22 4 | 0 45 | |
| 16 | 16 | 12 | 0 21 | 17 6 | 1 17 | 22 5 | 0 45 | |
| 19 | 16 | 11 | 0 21 | 17 7 | 1 17 | 22 5 | 0 44 | |
| 22 | 16 | 11 | 0 21 | 17 7 | 1 17 | 22 6 | 0 44 | |
| 25 | 16 | 10 | 0 21 | 17 7 | 1 17 | 22 6 | 0 43 | |
| 28 | 16 | 10 | 0 21 | 17 7 | 1 17 | 22 6 | 0 43 | |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin |
|--------|--------|-------------------|------------|-------------|------------|------------|-------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 20 43 18 | 11 48 51 | 17 8 16 | 24 15 16 | 4 8 19 | 14 N 40 |
| 2 | S | 20 47 10 | 12 49 42 | 18 59 6 | 25 15 3 | 4 50 16 | 48 |
| 3 | S | 20 51 6 | 13 50 31 | 18 41 19 | 15 5 | 6 17 57 | |
| 4 | M | 20 55 8 | 14 51 19 | 18 24 15 | 27 5 | 8 18 19 | |
| 5 | Tu | 20 58 59 | 15 52 5 | 16 6 13 | 29 4 | 58 17 52 | |
| 6 | W | 21 2 56 | 16 52 50 | 15 47 25 | 26 4 | 32 16 37 | |
| 7 | Th | 21 6 52 | 17 53 33 | 15 29 7 | 22 19 3 | 58 14 40 | |
| 8 | F | 21 10 49 | 18 54 15 | 15 10 19 | 9 3 | 9 13 6 | |
| 9 | S | 21 14 45 | 19 54 55 | 14 51 0 | 59 2 | 15 9 2 | |
| 10 | S | 21 18 42 | 20 55 35 | 14 32 13 | 49 1 | 14 5 37 | |
| 11 | | | 21 56 13 | 14 13 24 | 44 0 | 10 1 57 | |
| 12 | | | 22 56 49 | 13 53 6 | 44 0 | N 58 13 49 | |
| 13 | | | 23 57 24 | 13 33 18 | 54 2 | 0 5 34 | |
| 14 | | | 24 57 59 | 13 13 13 | 1 16 2 | 59 9 2 | |
| 15 | | | 25 58 32 | 12 52 13 | 56 3 | 51 13 21 | |
| 16 | S | 21 42 22 | 26 59 3 | 12 32 26 | 57 4 | 33 16 2 | |
| 17 | S | 21 46 13 | 27 59 34 | 12 11 10 | 32 5 | 2 17 2 | |
| 18 | M | 21 50 14 | 29 0 3 | 11 50 24 | 15 5 | 14 18 7 | |
| 19 | Tu | 21 54 11 | 0 0 31 | 11 29 8 | 84 5 | 7 18 4 | |
| 20 | W | 21 58 7 | 1 0 57 | 11 7 23 | 17 4 | 41 16 50 | |
| 21 | Th | 22 2 4 | 2 1 22 | 10 46 8 | 19 3 | 54 14 26 | |
| 22 | | 22 6 1 | 3 1 45 | 10 25 23 | 31 2 | 51 11 0 | |
| 23 | S | 22 9 57 | 4 2 7 | 10 2 8 | 44 1 | 35 6 50 | |
| 24 | S | 22 13 54 | 5 2 26 | 9 40 23 | 47 0 | 14 2 16 | |
| 25 | M | 22 17 50 | 6 2 44 | 9 18 8 | 32 1 | 8 7 2 N 21 | |
| 26 | Tu | 22 21 47 | 7 3 0 | 8 56 22 | 53 2 | 23 6 43 | |
| 27 | W | 22 25 43 | 8 3 14 | 8 33 6 | 47 3 | 26 10 33 | |
| 28 | Th | 22 29 40 | 9 3 26 | 8 11 20 | 14 4 | 18 13 42 | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jup. |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 16 | 10 | 0 N 21 | 17 S 6 | 1 N 18 | 22 S 6 | 0 S 42 |
| 4 | 16 | 9 | 0 21 | 17 5 | 1 18 | 22 6 | 0 41 |
| 7 | 16 | 8 | 0 21 | 17 5 | 1 18 | 22 6 | 0 40 |
| 10 | 16 | 8 | 0 21 | 17 4 | 1 18 | 22 6 | 0 40 |
| 13 | 16 | 7 | 0 21 | 17 3 | 1 19 | 22 6 | 0 39 |
| 16 | 16 | 6 | 0 21 | 17 3 | 1 19 | 22 6 | 0 39 |
| 19 | 16 | 5 | 0 21 | 17 2 | 1 19 | 22 6 | 0 38 |
| 22 | 16 | 4 | 0 22 | 17 1 | 1 19 | 22 6 | 0 38 |
| 25 | 16 | 3 | 0 22 | 17 0 | 1 19 | 22 6 | 0 37 |
| 28 | 16 | 3 | 0 22 | 16 59 | 1 19 | 22 6 | 0 37 |
| 31 | 16 | 2 | 0 22 | 16 57 | 1 19 | 22 6 | 0 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | | ☉
Declin. | | ☽
Long. | | ☽
Lat. | | ☽
Declin. | |
|--------|--------|-------------------|------------|-------|--------------|-------|------------|-------|-----------|------|--------------|----|
| | | H. M. S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | F | 22 33 36 | 10 | 3 36 | 7 | 24 48 | 3 | 11 15 | 4 | 51 | 16 | 3 |
| 2 | S | 22 37 33 | 11 | 3 44 | 7 | 25 16 | 5 | 11 55 | 5 | 11 | 17 | 33 |
| 3 | S | 22 41 30 | 12 | 3 49 | 7 | 25 48 | 5 | 12 16 | 5 | 16 | 18 | 11 |
| 4 | M | 22 45 26 | 13 | 3 53 | 8 | 40 10 | 5 | 24 24 | 5 | 7 | 17 | 57 |
| 5 | Tu | 22 49 23 | 14 | 3 54 | 8 | 17 22 | 4 | 22 22 | 4 | 45 | 16 | 55 |
| 6 | W | 22 53 19 | 15 | 3 53 | 8 | 53 42 | 4 | 13 13 | 4 | 10 | 15 | 10 |
| 7 | Th | 22 57 16 | 16 | 3 49 | 8 | 30 16 | 3 | 16 2 | 3 | 25 | 13 | 47 |
| 8 | F | 23 1 12 | 17 | 3 44 | 8 | 7 27 | 2 | 51 61 | 2 | 31 | 9 | 52 |
| 9 | S | 23 5 9 | 18 | 3 37 | 4 | 43 9 | 1 | 43 43 | 1 | 30 | 6 | 32 |
| 10 | S | 23 9 5 | 19 | 3 28 | 4 | 20 21 | 0 | 21 40 | 0 | 25 | 2 | 55 |
| 11 | M | 23 13 2 | 20 | 3 17 | 3 | 57 3 | 0 | 43 43 | 0 | N 42 | 0 | 51 |
| 12 | Tu | 23 16 59 | 21 | 3 4 | 3 | 33 15 | 55 | 1 47 | 4 | 37 | | |
| 13 | W | 23 20 55 | 22 | 2 49 | 3 | 9 28 | 17 | 2 49 | 3 | 14 | | |
| 14 | Th | 23 24 52 | 23 | 2 32 | 3 | 46 10 | 52 | 3 44 | 11 | 38 | | |
| 15 | F | 23 28 48 | 24 | 2 14 | 2 | 22 23 | 41 | 4 28 | 14 | 23 | | |
| 16 | S | 23 32 45 | 25 | 1 54 | 1 | 59 6 | 47 | 5 0 | 16 | 32 | | |
| 17 | S | 23 36 41 | 26 | 1 32 | 1 | 35 20 | 12 | 5 16 | 17 | 51 | | |
| 18 | M | 23 40 38 | 27 | 1 9 | 1 | 11 3 | 58 | 5 15 | 18 | 9 | | |
| 19 | Tu | 23 44 34 | 28 | 0 43 | 0 | 47 18 | 1 | 4 55 | 17 | 28 | | |
| 20 | W | 23 48 31 | 29 | 0 16 | 0 | 24 2 | 25 | 4 17 | 15 | 38 | | |
| 21 | Th | 23 52 28 | 29 | 59 47 | 0 | N 0 | 17 | 4 | 3 | 21 | 12 | 32 |
| 22 | F | 23 56 24 | 0 | 59 17 | 0 | 24 1 | 55 | 2 11 | 8 | 45 | | |
| 23 | S | 0 0 21 | 1 | 58 45 | 0 | 47 16 | 51 | 0 52 | 4 | 24 | | |
| 24 | S | 0 4 17 | 2 | 58 10 | 1 | 11 1 | 42 | 0 | S 30 | 0 | N 13 | |
| 25 | M | 0 8 14 | 3 | 57 34 | 1 | 35 16 | 23 | 1 50 | 4 | 46 | | |
| 26 | Tu | 0 12 10 | 4 | 56 56 | 1 | 58 0 | 45 | 3 0 | 8 | 56 | | |
| 27 | W | 0 16 7 | 5 | 56 14 | 2 | 22 14 | 45 | 3 58 | 12 | 29 | | |
| 28 | Th | 0 20 3 | 6 | 55 31 | 2 | 45 23 | 19 | 4 41 | 15 | 16 | | |
| 29 | F | 0 24 0 | 7 | 54 46 | 3 | 9 11 | 28 | 5 7 | 17 | 7 | | |
| 30 | S | 0 27 57 | 8 | 53 59 | 3 | 32 24 | 13 | 5 17 | 18 | 3 | | |
| 31 | S | 0 31 53 | 9 | 53 9 | 3 | 55 6 | 33 | 5 12 | 18 | 6 | | |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 16 | 18 S 29 | 3 N 21 | 18 S 5 | 0 S 45 | 17 S 31 | 27 m 22 |
| 4 | 1 14 | 18 47 | 3 6 | 17 52 | 1 9 | 16 50 | 27 12 |
| 7 | 1 12 | 19 8 | 2 44 | 17 36 | 1 30 | 15 56 | 27 3 |
| 10 | 1 10 | 19 18 | 2 26 | 17 22 | 1 47 | 14 51 | 26 53 |
| 13 | 1 8 | 19 33 | 2 7 | 16 52 | 2 0 | 13 33 | 26 44 |
| 16 | 1 5 | 19 47 | 1 50 | 16 20 | 2 10 | 12 5 | 26 34 |
| 19 | 1 3 | 20 1 | 1 32 | 15 47 | 2 16 | 10 25 | 26 25 |
| 22 | 1 0 | 20 14 | 1 17 | 15 9 | 2 18 | 8 34 | 26 15 |
| 25 | 0 56 | 20 25 | 0 59 | 14 31 | 2 16 | 6 31 | 26 6 |
| 28 | 0 53 | 20 36 | 0 46 | 13 41 | 2 9 | 4 19 | 25 56 |
| 31 | 0 50 | 20 46 | 0 29 | 12 49 | 1 58 | 1 57 | 25 47 |

| D
M | ♂ | | ♀ | | ☿ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|---------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♀ | ♂ | ♀ | ☿ |
| 1 | 25 f 39 | 24 s 29 | 27 m 54 | 28 w 45 | 13 m 28 | | | | | | | ♂ | |
| 2 | 25 43 | 24 37 | 28 18 | 24 41 | 14 37 | ♀ Δ ♀ | ☐ | | | | | | Δ |
| 3 | 25 46 | 24 45 | 28 41 | 25 38 | 15 50 | | | | | | ♂ | | |
| 4 | 25 49 | 24 54 | 29 5 | 26 35 | 17 6 | | | Δ | | | | | |
| 5 | 25 53 | 25 2 | 29 28 | 27 33 | 18 23 | ☿ ☐ ♀ | | Δ | | * | | ♂ | |
| 6 | 25 56 | 25 10 | 29 52 | 28 31 | 19 41 | | | | | | | Δ | |
| 7 | 25 59 | 25 19 | 0 f 15 | 29 29 | 20 59 | | | ☐ | | | | | ♂ |
| 8 | 26 2 | 25 28 | 0 37 | 0 m 28 | 22 19 | | | | Δ | ☐ | ☐ | | |
| 9 | 26 6 | 25 37 | 0 59 | 1 27 | 23 41 | ♀ * ♂ | | | | | | | |
| 10 | 26 7 | 25 46 | 1 21 | 2 27 | 25 5 | ☉ Δ ♀ | | ♂ | * | ☐ | Δ | | |
| 11 | 26 10 | 25 55 | 1 43 | 3 27 | 26 31 | ☿ * ♀ | | | | | | * | Δ |
| 12 | 26 12 | 26 4 | 2 5 | 4 28 | 27 59 | ☿ ☐ ♀ | | | | | | | |
| 13 | 26 14 | 26 14 | 2 26 | 5 29 | 29 27 | | | | | * | | | Δ |
| 14 | 26 16 | 26 23 | 2 47 | 6 30 | 0 x 56 | | | | | | | ☐ | |
| 15 | 26 18 | 26 33 | 3 7 | 7 32 | 2 27 | | | Δ | ☿ | | ♂ | | |
| 16 | 26 20 | 26 43 | 3 26 | 8 34 | 3 59 | ☿ ☐ ♂ | | | | | | ♂ | * |
| 17 | 26 22 | 26 53 | 3 46 | 9 36 | 5 32 | ☉ ☐ ♀ | | | | ♂ | | | ☐ |
| 18 | 26 24 | 27 3 | 4 5 | 10 39 | 7 7 | ☉ * ♀ | | ☐ | | | | | * |
| 19 | 26 26 | 27 13 | 4 23 | 11 42 | 8 43 | | | | * | | | | |
| 20 | 26 28 | 27 23 | 4 41 | 12 45 | 10 20 | | | * | | | Δ | * | |
| 21 | 26 30 | 27 34 | 4 59 | 13 48 | 11 59 | | | ☐ | | | | ♂ | |
| 22 | 26 31 | 27 44 | 5 17 | 14 51 | 13 39 | | | | * | ☐ | ☐ | | |
| 23 | 26 33 | 27 55 | 5 34 | 15 54 | 15 20 | | | Δ | | | | | ♂ |
| 24 | 26 34 | 28 5 | 5 50 | 16 58 | 17 3 | | | ♂ | | ☐ | * | Δ | |
| 25 | 26 35 | 28 16 | 6 6 | 18 2 | 18 47 | ☿ Δ ♀ | | | | | | * | |
| 26 | 26 36 | 28 27 | 6 21 | 19 6 | 20 32 | ♀ ☐ ♀ | | | | Δ | | | |
| 27 | 26 37 | 28 38 | 6 36 | 20 11 | 22 18 | | | | ♂ | | | ☐ | |
| 28 | 26 38 | 28 49 | 6 50 | 21 16 | 24 6 | ☉ Δ ♂ | | | | | ♂ | | * |
| 29 | 26 39 | 29 1 | 7 4 | 22 21 | 25 55 | ☿ ☐ ♀ | * | | | | | ♂ | |
| 30 | 26 40 | 29 12 | 7 16 | 23 26 | 27 46 | | | | | ♂ | | Δ | ☐ |
| 31 | 26 41 | 29 23 | 7 31 | 24 32 | 29 38 | ☿ * ♀ | | ☐ | | | | | |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupi |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 16 | 1 | 0 N 22 | 16 S 56 | 1 N 19 | 22 S 6 | 0 S 36 |
| 4 | 16 | 0 | 0 22 | 16 54 | 1 19 | 22 6 | 0 36 |
| 7 | 15 | 59 | 0 22 | 16 53 | 1 20 | 22 6 | 0 35 |
| 10 | 15 | 58 | 0 22 | 16 51 | 1 20 | 22 5 | 0 35 |
| 13 | 15 | 58 | 0 22 | 16 49 | 1 20 | 22 5 | 0 34 |
| 16 | 15 | 57 | 0 22 | 16 48 | 1 20 | 22 5 | 0 34 |
| 19 | 15 | 56 | 0 22 | 16 46 | 1 20 | 22 5 | 0 33 |
| 22 | 15 | 56 | 0 22 | 16 44 | 1 21 | 22 4 | 0 33 |
| 25 | 15 | 55 | 0 22 | 16 42 | 1 21 | 22 4 | 0 32 |
| 28 | 15 | 54 | 0 22 | 16 40 | 1 21 | 22 4 | 0 32 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 0 35 50 | 10 r 52 17 | 4 N 18 | 18 25 47 | 4 S 53 | 17 N 18 |
| 2 | Tu | 0 39 46 | 11 51 22 | 4 42 | 0 2 45 | 4 21 15 | 45 |
| 3 | W | 0 43 42 | 12 50 25 | 5 5 | 12 35 | 3 39 18 | 32 |
| 4 | Th | 0 47 38 | 13 49 26 | 5 28 | 24 24 | 2 47 10 | 46 |
| 5 | F | 0 51 34 | 14 48 24 | 5 50 | 6 w 14 | 1 49 7 | 33 |
| 6 | S | 0 55 30 | 15 47 20 | 6 13 | 18 10 | 0 45 4 | 0 |
| 7 | S | 0 59 26 | 16 46 15 | 6 36 | 0 14 | 0 N 22 | 0 15 |
| 8 | M | 1 3 22 | 17 45 7 | 6 58 | 12 29 | 1 28 3 S | 35 |
| 9 | Tu | 1 7 19 | 18 43 57 | 7 21 | 24 57 | 2 32 7 | 19 |
| 10 | W | 1 11 15 | 19 42 45 | 7 43 | 7 w 38 | 3 29 10 | 47 |
| 11 | Th | 1 15 12 | 20 41 31 | 8 6 | 20 33 | 4 16 13 | 47 |
| 12 | F | 1 19 9 | 21 40 16 | 8 27 | 3 41 | 4 50 16 | 9 |
| 13 | S | 1 23 5 | 22 38 58 | 8 49 | 17 3 | 5 10 17 | 41 |
| 14 | ■ | 1 27 1 | 23 37 40 | 9 11 | 0 w 38 | 5 18 18 | 15 |
| 15 | M | 1 30 58 | 24 36 15 | 9 33 | 14 26 | 4 55 17 | 45 |
| 16 | Tu | 1 34 54 | 25 34 57 | 9 54 | 28 25 | 4 25 16 | 10 |
| 17 | W | 1 38 51 | 26 33 38 | 10 15 | 12 m 35 | 3 36 13 | 35 |
| 18 | Th | 1 42 45 | 27 32 5 | 10 36 | 26 55 | 2 35 10 | 10 |
| 19 | F | 1 46 44 | 28 30 41 | 10 57 | 11 x 21 | 1 19 6 | 6 |
| 20 | S | 1 50 41 | 29 29 12 | 11 16 | 25 50 | 0 1 1 | 39 |
| 21 | S | 1 54 37 | 0 27 42 | 11 39 | 10 r 18 | 1 S 18 | 2 N 53 |
| 22 | M | 1 58 34 | 1 26 10 | 11 59 | 24 39 | 2 30 7 | 13 |
| 23 | Tu | 2 2 30 | 2 24 36 | 12 19 | 38 45 | 3 33 11 | 5 |
| 24 | W | 2 6 27 | 3 23 0 | 12 39 | 22 40 | 4 21 14 | 15 |
| 25 | Th | 2 10 23 | 4 21 22 | 12 59 | 6 11 | 4 53 16 | 33 |
| 26 | F | 2 14 20 | 5 19 42 | 13 19 | 19 20 | 5 9 17 | 54 |
| 27 | S | 2 18 17 | 6 18 1 | 13 35 | 2 28 | 5 8 18 | 18 |
| 28 | S | 2 22 13 | 7 16 17 | 13 57 | 14 35 | 4 53 17 | 48 |
| 29 | M | 2 26 10 | 8 14 31 | 14 16 | 26 46 | 4 25 16 | 29 |
| 30 | Tu | 2 30 6 | 9 12 44 | 14 35 | 8 244 | 3 45 14 | 27 |

| D
M | Sun's | | Herschel. | | Saturn. | | Jup | |
|--------|----------|----|-----------|---------|---------|---------|--------|---|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | |
| | ' | " | ' | ' | ' | ' | ' | ' |
| 1 | 15 | 54 | 0 N 22 | 16 8 37 | 1 N 21 | 22 8 4 | 0 8 31 | |
| 4 | 15 | 54 | 0 22 | 16 35 | 1 21 | 22 4 | 0 81 | |
| 7 | 15 | 53 | 0 22 | 16 32 | 1 21 | 22 3 | 0 31 | |
| 10 | 15 | 52 | 0 21 | 16 30 | 1 21 | 22 3 | 0 31 | |
| 13 | 15 | 51 | 0 21 | 16 28 | 1 21 | 22 2 | 0 30 | |
| 16 | 16 | 51 | 0 21 | 16 27 | 1 21 | 22 2 | 0 30 | |
| 19 | 15 | 50 | 0 21 | 16 25 | 1 21 | 22 2 | 0 29 | |
| 22 | 15 | 50 | 0 21 | 16 23 | 1 21 | 22 1 | 0 29 | |
| 25 | 15 | 49 | 0 21 | 16 21 | 1 21 | 22 1 | 0 29 | |
| 28 | 15 | 49 | 0 21 | 16 19 | 1 21 | 22 0 | 0 29 | |
| 31 | 15 | 48 | 0 21 | 16 17 | 1 21 | 22 0 | 0 28 | |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. |
|--------|--------|-------------------|-------------|--------------|--------------|-----------|--------------|
| | | H. M. S. | ' | ' | ' | ' | ' |
| 1 | W | 2 34 3 | 10 5 10 54 | 14 N 53 | 20 2 35 | 2 8 57 | 11 N 50 |
| 2 | Th | 2 37 59 | 11 9 2 15 | 11 2 W 25 | 2 1 8 44 | | |
| 3 | ■ | 2 41 56 | 12 7 8 15 | 29 15 16 | 1 0 5 17 | | |
| 4 | ■ | 2 45 52 | 13 5 13 15 | 47 26 16 | 0 N 6 1 34 | | |
| 5 | ■ | 2 49 49 | 14 3 15 16 | 4 8 27 | 1 10 3 8 17 | | |
| 6 | M | | 15 1 16 16 | 21 20 53 | 2 13 6 6 | | |
| 7 | Tu | | 15 59 15 16 | 38 3 W 36 | 3 11 9 44 | | |
| 8 | W | | 16 57 12 16 | 55 16 37 | 4 0 12 59 | | |
| 9 | Th | | 17 55 8 17 | 11 29 55 | 4 35 15 35 | | |
| 10 | F | | 18 53 3 17 | 27 18 29 | 5 0 17 29 | | |
| 11 | ■ | 3 13 26 | 19 50 56 17 | 43 27 15 | 5 6 18 21 | | |
| 12 | ■ | 3 17 25 | 20 48 47 17 | 58 11 W 11 | 4 53 18 7 | | |
| 13 | M | 3 21 22 | 21 46 38 18 | 14 25 14 | 4 23 16 47 | | |
| 14 | Tu | 3 25 18 | 22 44 27 18 | 28 9 W 20 | 3 37 14 26 | | |
| 15 | W | 3 29 16 | 23 42 16 18 | 43 23 28 | 2 38 11 13 | | |
| 16 | Th | 3 33 11 | 24 40 3 18 | 57 7 W 37 | 1 29 7 31 | | |
| 17 | F | 3 37 8 | 25 37 49 19 | 11 21 46 | 0 14 3 3 | | |
| 18 | ■ | 3 41 4 | 26 35 34 19 | 25 5 W 51 | 1 3 1 1 N 24 | | |
| 19 | ■ | 3 45 1 | 27 33 18 19 | 38 19 53 | 2 12 5 45 | | |
| 20 | M | 3 48 57 | 28 31 1 19 | 51 3 45 | 3 14 9 45 | | |
| 21 | Tu | 3 52 54 | 29 28 43 20 | 3 17 34 | 4 4 13 11 | | |
| 22 | W | 3 56 50 | 0 26 23 20 | 16 1 7 | 4 39 15 60 | | |
| 23 | Th | 4 0 47 | 1 24 3 20 | 28 14 24 | 4 59 17 36 | | |
| 24 | F | 4 4 44 | 2 21 41 20 | 39 27 24 | 5 2 18 24 | | |
| 25 | ■ | 4 8 40 | 3 19 18 20 | 50 10 5 6 | 4 50 18 15 | | |
| 26 | ■ | 4 12 37 | 4 16 54 21 | 1 22 30 | 4 25 17 13 | | |
| 27 | M | 4 16 33 | 5 14 28 21 | 12 4 40 | 3 48 15 25 | | |
| 28 | Tu | 4 20 30 | 6 12 1 21 | 22 16 37 | 3 1 12 58 | | |
| 29 | W | 4 24 26 | 7 9 32 21 | 32 28 29 | 2 7 10 2 | | |
| 30 | Th | 4 28 23 | 8 7 2 21 | 41 10 W 18 | 1 5 6 40 | | |
| 31 | F | 4 32 19 | 9 4 31 21 | 50 22 10 | 0 5 3 2 | | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|--------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 08 13 | 22 S 1 | 1 S 29 | 1 S 32 | 2 N 25 | 22 N 30 | 24 ⁴⁰ 8 |
| 4 | 0 22 | 22 5 | 1 35 | 0 15 | 2 33 | 23 27 | 23 59 |
| 7 | 0 30 | 22 9 | 1 41 | 1 N 3 | 2 33 | 24 4 | 23 49 |
| 10 | 0 39 | 22 12 | 1 45 | 2 22 | 2 24 | 24 21 | 23 40 |
| 13 | 0 49 | 22 13 | 1 49 | 3 39 | 2 6 | 24 20 | 23 30 |
| 16 | 0 59 | 22 13 | 1 53 | 4 57 | 1 39 | 24 3 | 23 21 |
| 19 | 1 8 | 22 12 | 1 54 | 6 15 | 1 3 | 23 31 | 23 11 |
| 22 | 1 17 | 22 10 | 1 55 | 7 34 | 0 19 | 22 46 | 23 2 |
| 25 | 1 27 | 22 8 | 1 56 | 8 49 | 0 S 31 | 21 51 | 22 52 |
| 28 | 1 37 | 22 5 | 1 56 | 10 5 | 1 23 | 20 49 | 22 43 |
| 31 | 1 46 | 22 1 | 1 55 | 11 18 | 2 14 | 19 45 | 22 33 |

| D
M | h | ♄ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♁ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 26 11 | 5 49 | 9 0 | 29 33 | 29 53 | | | ☐ | Δ | | | |
| 2 | 26 8 | 6 2 | 8 52 | 0 42 | 1 20 | | | | | ☐ | ☐ | ☐ |
| 3 | 26 6 | 6 16 | 8 43 | 1 51 | 2 40 | | Δ | * | | | | |
| 4 | 26 3 | 6 29 | 8 33 | 3 0 | 3 54 | | | | ☐ | | | |
| 5 | 26 1 | 6 43 | 8 22 | 4 10 | 5 5 | | | | | Δ | * | ♂ |
| 6 | 25 58 | 6 56 | 8 10 | 5 20 | 6 13 | ♀ ♂ ♄ | | | * | | | |
| 7 | 25 55 | 7 10 | 7 57 | 6 30 | 7 17 | ♀ Δ ♄ | ♂ | ♂ | | | | |
| 8 | 25 52 | 7 23 | 7 44 | 7 40 | 8 16 | ☉ ♂ ♄ | ♂ | ♂ | | | | |
| 9 | 25 49 | 7 37 | 7 30 | 8 50 | 9 10 | ♂ ♂ ♄ | | | | | | |
| 10 | 25 46 | 7 51 | 7 16 | 10 0 | 9 59 | ♀ ♂ ♂ | | | | ♂ | ♂ | Δ |
| 11 | 25 43 | 8 4 | 7 11 | 10 10 | 48 | ♀ * ♀ | | | ♂ | | | |
| 12 | 25 40 | 8 18 | 6 45 | 12 20 | 11 23 | | | * | | | | ☐ |
| 13 | 25 37 | 8 34 | 6 29 | 13 30 | 11 59 | | Δ | | | | | |
| 14 | 25 34 | 8 45 | 6 12 | 14 40 | 12 30 | | | | | Δ | * | * |
| 15 | 25 30 | 8 59 | 5 55 | 15 50 | 12 52 | | ☐ | ☐ | * | | | Δ |
| 16 | 25 27 | 9 13 | 5 37 | 17 0 | 13 11 | | | | | ☐ | ☐ | ☐ |
| 17 | 25 23 | 9 26 | 5 19 | 18 10 | 13 30 | | * | Δ | ☐ | * | Δ | * |
| 18 | 25 20 | 9 40 | 5 0 | 19 21 | 13 41 | | | | | * | | |
| 19 | 25 16 | 9 54 | 4 40 | 20 32 | 13 47 | | | | Δ | | ♂ | |
| 20 | 25 13 | 10 7 | 4 20 | 21 42 | 13 46 | | | | | | | |
| 21 | 25 9 | 10 21 | 4 0 | 22 52 | 13 45 | | | ♂ | ♂ | | | |
| 22 | 25 5 | 10 35 | 3 40 | 24 2 | 13 37 | | ♂ | | | | ♂ | |
| 23 | 25 1 | 10 49 | 3 20 | 25 13 | 13 25 | ♀ Δ ♄ | | | | ♂ | | ♂ |
| 24 | 24 57 | 11 3 | 3 0 | 26 24 | 13 9 | | | | ♂ | | * | |
| 25 | 24 53 | 11 17 | 2 39 | 27 35 | 12 49 | ☉ ♂ ♂ | | | | | | |
| 26 | 24 49 | 11 30 | 2 18 | 28 45 | 12 25 | | | Δ | | | | |
| 27 | 24 45 | 11 41 | 1 57 | 29 56 | 11 59 | ♀ ♂ ♄ | * | | | | Δ | ☐ |
| 28 | 24 41 | 11 58 | 1 37 | 1 7 | 11 30 | | | ☐ | | * | | * |
| 29 | 24 37 | 12 12 | 1 16 | 2 18 | 10 59 | | | | Δ | | ☐ | Δ |
| 30 | 24 33 | 12 26 | 0 56 | 3 29 | 10 27 | | ☐ | | | ☐ | | ☐ |
| 31 | 24 29 | 12 40 | 0 35 | 4 40 | 9 54 | ☉ ♂ ♀ | | * | ☐ | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|----|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | D |
| 1 | 15 | 48 | 0 N 21 | 16 8 16 | 1 N 21 | 23 8 0 | 0 8 28 | 27 |
| 4 | 15 | 48 | 0 21 | 16 14 | 1 21 | 21 59 | 0 28 | 27 |
| 7 | 15 | 47 | 0 21 | 16 12 | 1 21 | 21 59 | 0 27 | 27 |
| 10 | 15 | 47 | 0 21 | 16 10 | 1 21 | 21 58 | 0 27 | 27 |
| 13 | 15 | 46 | 0 21 | 16 8 | 1 20 | 21 58 | 0 27 | 27 |
| 16 | 15 | 46 | 0 21 | 16 7 | 1 20 | 21 57 | 0 27 | 27 |
| 19 | 15 | 46 | 0 21 | 16 6 | 1 20 | 21 57 | 0 26 | 27 |
| 22 | 15 | 46 | 0 21 | 16 5 | 1 20 | 21 57 | 0 26 | 27 |
| 25 | 15 | 46 | 0 21 | 16 4 | 1 19 | 21 57 | 0 26 | 27 |
| 28 | 15 | 46 | 0 21 | 16 3 | 1 19 | 21 56 | 0 26 | 27 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | | ☉
Declin | | ☽
Long. | | ☽
Lat. | | ☽
Declin | | L |
|--------|--------|-------------------|------------|-------|-------------|-------|------------|----|-----------|------|-------------|------|----|
| | | H. M. S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° |
| 1 | S | 4 36 16 | 10 | 11 58 | 21 | N 58 | 4 | 11 | 0 | N 58 | 0 | 8 46 | 10 |
| 2 | S | 4 40 18 | 10 | 59 25 | 22 | 7 16 | 26 | 2 | 1 4 | 37 | | | 10 |
| 3 | M | 4 44 9 | 11 | 58 50 | 22 | 15 28 | 59 | 2 | 58 8 | 21 | | | 10 |
| 4 | Tu | 4 48 6 | 12 | 54 14 | 22 | 22 11 | m 54 | 3 | 48 11 | 48 | | | 10 |
| 5 | W | 4 52 2 | 13 | 51 37 | 22 | 29 25 | 11 | 4 | 27 14 | 45 | | | 10 |
| 6 | Th | 4 55 59 | 14 | 48 59 | 22 | 36 8 | f 49 | 4 | 52 16 | 58 | | | 10 |
| 7 | F | 4 59 55 | 15 | 46 20 | 22 | 42 22 | 47 | 5 | 1 18 | 15 | | | 10 |
| 8 | S | 5 3 52 | 16 | 43 41 | 22 | 48 7 | w 0 | 4 | 51 18 | 26 | | | 10 |
| 9 | S | 5 7 48 | 17 | 41 1 | 22 | 53 21 | 22 | 4 | 23 17 | 26 | | | 10 |
| 10 | M | 5 11 45 | 18 | 38 20 | 22 | 59 5 | m 47 | 3 | 38 15 | 19 | | | 10 |
| 11 | Tu | 5 15 42 | 19 | 35 39 | 22 | 3 20 | 10 | 2 | 39 12 | 15 | | | 10 |
| 12 | W | 5 19 38 | 20 | 32 58 | 22 | 7 4 | x 28 | 1 | 30 6 | 29 | | | 10 |
| 13 | Th | 5 23 35 | 21 | 30 16 | 22 | 11 18 | 38 | 0 | 17 4 | 15 | | | 10 |
| 14 | F | 5 27 31 | 22 | 27 34 | 22 | 15 2 | r 39 | 0 | 8 57 | 0 | N 11 | | 10 |
| 15 | S | 5 31 28 | 23 | 24 51 | 22 | 18 16 | 30 | 2 | 7 4 | 32 | | | 10 |
| 16 | S | 5 35 24 | 24 | 22 9 | 22 | 20 0 | s 12 | 3 | 8 8 | 37 | | | 10 |
| 17 | M | 5 39 21 | 25 | 19 26 | 22 | 23 13 | 45 | 3 | 58 12 | 11 | | | 10 |
| 18 | Tu | 5 43 17 | 26 | 16 43 | 22 | 25 27 | 7 | 4 | 34 15 | 6 | | | 10 |
| 19 | W | 5 47 14 | 27 | 14 0 | 22 | 28 10 | II 17 | 4 | 55 17 | 9 | | | 10 |
| 20 | Th | 5 51 11 | 28 | 11 16 | 22 | 31 23 | 14 | 5 | 0 18 | 17 | | | 10 |
| 21 | F | 5 55 7 | 29 | 8 32 | 22 | 34 6 | 58 | 4 | 51 18 | 29 | | | 10 |
| 22 | S | 5 59 4 | 0 | 5 48 | 22 | 38 18 | 28 | 4 | 27 17 | 47 | | | 10 |
| 23 | S | 6 3 0 | 1 | 3 3 | 22 | 42 0 | 24 | 3 | 51 16 | 15 | | | 10 |
| 24 | M | 6 6 57 | 2 | 0 18 | 22 | 45 12 | 48 | 3 | 5 14 | 2 | | | 10 |
| 25 | Tu | 6 10 53 | 3 | 57 32 | 22 | 48 24 | 43 | 2 | 11 11 | 14 | | | 10 |
| 26 | W | 6 14 50 | 4 | 54 46 | 22 | 51 6 | m 31 | 1 | 12 8 | 0 | | | 10 |
| 27 | Th | 6 18 47 | 5 | 51 59 | 22 | 54 18 | 19 | 0 | 10 4 | 28 | | | 10 |
| 28 | F | 6 22 43 | 6 | 49 12 | 22 | 57 0 | 11 | 0 | N 53 | 0 | 44 | | 10 |
| 29 | S | 6 26 40 | 7 | 46 24 | 22 | 60 12 | 11 | 1 | 54 8 | 8 | 4 | | 10 |
| 30 | S | 6 30 36 | 8 | 43 36 | 22 | 63 24 | 27 | 2 | 52 6 | 49 | | | 10 |



JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupi |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° |
| 1 | 15 | 45 | 0 N 21 | 16 S 2 | 1 N 19 | 21 S 55 | 0 S 25 |
| 4 | 15 | 45 | 0 21 | 16 1 | 1 19 | 21 54 | 0 25 |
| 7 | 15 | 45 | 0 21 | 16 0 | 1 18 | 21 54 | 0 25 |
| 10 | 15 | 46 | 0 21 | 15 59 | 1 18 | 21 54 | 0 25 |
| 13 | 15 | 46 | 0 20 | 15 59 | 1 17 | 21 54 | 0 25 |
| 16 | 15 | 46 | 0 20 | 15 59 | 1 17 | 21 54 | 0 25 |
| 19 | 15 | 46 | 0 20 | 15 58 | 1 17 | 21 54 | 0 24 |
| 22 | 15 | 46 | 0 20 | 15 58 | 1 17 | 21 53 | 0 24 |
| 25 | 15 | 47 | 0 20 | 15 58 | 1 16 | 21 53 | 0 24 |
| 28 | 15 | 47 | 0 20 | 15 58 | 1 16 | 21 53 | 0 24 |
| 31 | 15 | 47 | 0 20 | 15 59 | 1 15 | 21 54 | 0 23 |

| D
M | D
W | Siderea
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin |
|--------|--------|------------------|------------|--------------|------------|-----------|-------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 6 34 33 | 8 40 48 | 23 N 11 | 7 m 2 | 3 N 42 | 10 S 22 |
| 2 | Tu | 6 38 29 | 9 37 59 | 23 7 20 | 0 4 23 | 18 32 | |
| 3 | W | 6 42 26 | 10 35 10 | 23 2 3 24 | 4 51 | 16 6 | |
| 4 | Th | 6 46 22 | 11 32 21 | 22 58 17 | 15 5 | 17 49 | |
| 5 | F | 6 50 19 | 12 29 32 | 22 52 1 30 | 4 57 | 18 30 | |
| 6 | S | 6 54 16 | 13 26 43 | 22 47 16 | 3 4 32 | 18 0 | |
| 7 | S | 6 58 12 | 14 23 54 | 22 41 0 m 49 | 3 48 | 16 17 | |
| 8 | M | 7 2 9 | 15 21 5 | 22 35 15 | 38 2 49 | 13 28 | |
| 9 | Tu | 7 6 5 | 16 18 17 | 22 28 0 m 23 | 1 39 | 9 49 | |
| 10 | W | 7 10 2 | 17 15 29 | 22 21 14 | 58 0 23 | 5 35 | |
| 11 | Th | 7 13 58 | 18 12 41 | 22 13 29 | 19 0 8 | 54 1 6 | |
| 12 | F | 7 17 55 | 19 9 54 | 22 5 18 | 24 2 6 | 3 N 21 | |
| 13 | S | 7 21 51 | 20 7 8 | 21 57 27 | 12 3 9 | 7 33 | |
| 14 | S | 7 25 48 | 21 4 22 | 21 49 10 | 8 44 4 0 | 11 15 | |
| 15 | M | 7 29 45 | 22 1 37 | 21 40 24 | 1 4 37 | 14 19 | |
| 16 | Tu | 7 33 41 | 22 58 53 | 21 30 7 | 11 5 4 59 | 16 35 | |
| 17 | W | 7 37 38 | 23 56 9 | 21 20 19 | 55 5 6 | 18 0 | |
| 18 | Th | 7 41 34 | 24 53 26 | 21 10 2 33 | 4 57 | 18 29 | |
| 19 | F | 7 45 31 | 25 50 43 | 21 0 14 | 59 4 34 | 18 4 | |
| 20 | S | 7 49 27 | 26 48 2 | 20 49 27 | 14 3 59 | 16 49 | |
| 21 | S | 7 53 24 | 27 45 21 | 20 38 9 | 20 3 13 | 14 50 | |
| 22 | M | 7 57 20 | 28 42 40 | 20 26 21 | 16 2 20 | 12 13 | |
| 23 | Tu | 8 1 17 | 29 40 0 | 20 14 3 m 6 | 1 20 | 9 8 | |
| 24 | W | 8 5 14 | 0 37 20 | 20 2 14 | 53 0 17 | 5 42 | |
| 25 | Th | 8 9 10 | 1 34 41 | 19 50 26 | 40 0 N 46 | 2 2 | |
| 26 | F | 8 13 7 | 2 32 2 | 19 37 8 | 31 1 49 | 1 S 43 | |
| 27 | S | 8 17 3 | 3 29 24 | 19 24 20 | 31 2 47 | 5 36 | |
| 28 | S | 8 21 0 | 4 26 46 | 19 10 2 m 45 | 3 39 | 9 0 | |
| 29 | M | 8 24 56 | 5 24 8 | 18 50 15 | 18 4 22 | 12 16 | |
| 30 | Tu | 8 28 53 | 6 21 31 | 18 42 28 | 14 4 53 | 15 2 | |
| 31 | W | 8 32 49 | 7 18 55 | 18 28 11 | 37 5 9 | 17 6 | |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 28 50 | 21 S 37 | 18 9 | 21 N 4 | 28 14 | 20 N 41 | 20 m 54 |
| 4 | 2 53 | 21 42 | 1 2 | 21 17 | 1 36 | 21 37 | 20 44 |
| 7 | 2 56 | 21 46 | 0 54 | 22 6 | 0 58 | 22 27 | 20 35 |
| 10 | 2 58 | 21 53 | 0 47 | 22 25 | 0 20 | 23 6 | 20 25 |
| 13 | 3 0 | 21 59 | 0 39 | 22 45 | 0 N 15 | 23 29 | 20 16 |
| 16 | 3 1 | 22 9 | 0 32 | 22 56 | 0 46 | 23 29 | 20 6 |
| 19 | 3 2 | 22 19 | 0 23 | 23 2 | 1 11 | 23 6 | 19 57 |
| 22 | 3 3 | 22 30 | 0 15 | 23 1 | 1 30 | 22 19 | 19 47 |
| 25 | 3 3 | 22 42 | 0 7 | 22 55 | 1 41 | 21 9 | 19 38 |
| 28 | 3 3 | 22 54 | 0 N 1 | 22 40 | 1 46 | 19 41 | 19 33 |
| 31 | 3 3 | 23 5 | 0 9 | 22 19 | 1 46 | 17 59 | 19 19 |

| D
M | ☿ | | ♈ | | ♉ | | ♊ | | ♋ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|----------|----------------------|-----------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 22 15 19 | 149 24 m 19 | 11 139 17 | 147 | | | | | | | | Δ | | | | | |
| 2 | 22 10 20 | 8 24 19 12 | 51 19 6 | | | | | | | | | ☿ | | | | | |
| 3 | 22 6 20 | 16 24 20 14 | 3 20 31 | ☿ ☿ ♈ | | | | | | | | | | | | | |
| 4 | 22 2 20 | 29 24 21 15 | 15 22 1 | ☿ ☿ ♈ | | | | | | | | | | | | | |
| 5 | 21 58 20 | 43 24 23 16 | 27 23 34 | | | | | | | | | | | | | | |
| 6 | 21 54 30 | 56 24 27 17 | 39 25 10 | | | | | | | | | ☿ * | | | | | |
| 7 | 21 50 21 | 9 24 32 18 | 52 26 49 | ☉ Δ ♈ | | | | | | | | | | | | | |
| 8 | 21 46 21 | 23 24 38 20 | 4 28 32 | ☿ ☿ ♈ | | | | | | | | ☉ | | | | | |
| 9 | 21 42 21 | 36 24 44 21 | 16 0 18 | ☿ ☿ ♈ | | | | | | | | | | | | | |
| 10 | 21 38 21 | 49 24 50 22 | 28 2 8 | ☿ ☿ ♈ | | | | | | | | Δ | Δ | ☉ | ☉ | | Δ |
| 11 | 21 35 22 | 2 24 57 28 | 41 4 1 | | | | | | | | | | | | | Δ | ☉ |
| 12 | 21 31 22 | 15 25 4 24 | 54 5 56 | | | | | | | | | ☉ | | | | | |
| 13 | 21 28 22 | 28 25 12 26 | 7 7 58 | | | | | | | | | | | Δ | * | * | * |
| 14 | 21 24 22 | 41 25 21 27 | 19 9 52 | | | | | | | | | | | ☿ | | | * |
| 15 | 21 21 22 | 54 25 31 28 | 31 11 54 | | | | | | | | | * | | | | ☿ | |
| 16 | 21 18 23 | 7 25 42 29 | 44 13 59 | ☿ Δ ♈ | | | | | | | | | | | | | |
| 17 | 21 14 23 | 20 25 54 0 57 16 | 5 | | | | | | | | | | | ☿ | ☿ | | |
| 18 | 21 11 23 | 33 26 7 3 10 18 | 11 | | | | | | | | | | | | | | ☿ |
| 19 | 21 8 23 | 46 26 20 8 23 20 | 17 | | | | | | | | | | | Δ | | | |
| 20 | 21 5 23 | 59 26 34 4 36 22 | 24 | ☉ Δ ☿ | | | | | | | | ☉ | ☿ | | | Δ | ☿ |
| 21 | 21 2 24 | 11 26 49 5 48 24 | 32 | | | | | | | | | | | ☉ | | | |
| 22 | 20 59 24 | 24 27 4 7 1 26 | 40 | ☿ | | | | | | | | | | Δ | * | ☉ | |
| 23 | 20 56 24 | 36 27 20 8 14 28 | 47 | | | | | | | | | | | | | | |
| 24 | 20 53 24 | 49 27 36 9 27 0 54 | 54 | ☉ | | | | | | | | | | * | | | * |
| 25 | 20 50 25 | 1 27 53 10 40 2 59 | | | | | | | | | | | | ☉ | | | |
| 26 | 20 47 25 | 14 28 11 11 53 5 4 | | | | | | | | | | | | | | ☉ | * |
| 27 | 20 44 25 | 26 28 29 13 6 7 8 | | | | | | | | | | | | * | Δ | | |
| 28 | 20 42 25 | 38 28 48 14 19 9 10 | 11 | ☿ Δ ♈ | | | | | | | | ☉ | | | | | |
| 29 | 20 39 25 | 50 28 7 15 32 11 11 | | | | | | | | | | | | ☿ | | Δ | ☉ |
| 30 | 20 36 26 | 2 29 27 16 45 13 11 | | | | | | | | | | | | | | ☿ | |
| 31 | 20 34 26 | 14 29 47 17 58 15 10 | | ☿ ☉ ♈ | | | | | | | | Δ | | | | | Δ |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 20 | 15 S 59 | 1 N 14 | 21 S 54 | 0 S 23 | 23 N 1 |
| 4 | 15 | 47 | 0 20 | 15 59 | 1 14 | 21 54 | 0 23 | 23 2 |
| 7 | 15 | 48 | 0 20 | 16 0 | 1 13 | 21 54 | 0 23 | 23 3 |
| 10 | 15 | 48 | 0 20 | 16 1 | 1 13 | 21 54 | 0 23 | 23 4 |
| 13 | 15 | 49 | 0 19 | 16 2 | 1 12 | 21 54 | 0 23 | 23 5 |
| 16 | 15 | 49 | 0 19 | 16 3 | 1 12 | 21 55 | 0 23 | 23 5 |
| 19 | 15 | 50 | 0 19 | 16 4 | 1 11 | 21 55 | 0 22 | 23 5 |
| 22 | 15 | 50 | 0 19 | 16 5 | 1 11 | 21 56 | 0 22 | 23 5 |
| 25 | 15 | 51 | 0 19 | 16 6 | 1 10 | 21 56 | 0 22 | 23 5 |
| 28 | 15 | 51 | 0 19 | 16 8 | 1 10 | 21 57 | 0 22 | 23 5 |
| 31 | 15 | 52 | 0 19 | 16 10 | 1 9 | 21 58 | 0 22 | 23 5 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 8 36 46 | 8 2 16 19 | 18 N 13 | 25 7 28 | 5 N 8 | 18 S 15 | 14 m 49 |
| 2 | F | 8 40 43 | 9 13 44 | 17 58 | 9 47 | 4 49 | 18 18 | 14 50 |
| 3 | S | 8 44 39 | 10 11 10 | 17 42 | 24 29 | 4 10 | 17 9 | 14 51 |
| 4 | S | 8 48 36 | 11 8 37 | 17 27 | 9 m 27 | 3 13 | 14 48 | 14 51 |
| 5 | M | 8 52 32 | 12 6 4 | 17 11 | 24 33 | 2 3 | 11 25 | 14 52 |
| 6 | Tu | 8 56 29 | 13 3 33 | 16 55 | 9 x 38 | 0 44 | 7 18 | 14 53 |
| 7 | W | 9 0 25 | 14 1 3 | 16 38 | 24 32 | 0 S 38 | 2 45 | 14 53 |
| 8 | Th | 9 4 22 | 14 58 34 | 16 21 | 9 r 10 | 1 55 | 1 N 52 | 14 54 |
| 9 | F | 9 8 18 | 15 56 7 | 16 4 | 23 27 | 3 4 | 6 16 | 14 55 |
| 10 | S | 9 12 15 | 16 53 40 | 15 47 | 7 s 22 | 4 0 | 10 12 | 14 55 |
| 11 | S | 9 16 12 | 17 51 16 | 15 30 | 20 54 | 4 40 | 13 29 | 14 56 |
| 12 | M | 9 20 8 | 18 48 53 | 15 12 | 4 11 6 | 5 5 | 15 59 | 14 57 |
| 13 | Tu | 9 24 5 | 19 46 31 | 14 54 | 16 59 | 5 14 | 17 37 | 14 58 |
| 14 | W | 9 28 1 | 20 44 11 | 14 36 | 29 35 | 5 7 | 18 21 | 14 59 |
| 15 | Th | 9 31 58 | 21 41 53 | 14 17 | 11 58 | 4 46 | 18 10 | 15 0 |
| 16 | F | 9 35 54 | 22 39 36 | 13 58 | 24 10 | 4 12 | 17 10 | 15 1 |
| 17 | S | 9 39 51 | 23 37 20 | 13 40 | 6 2 13 | 3 27 | 15 23 | 15 2 |
| 18 | S | 9 43 47 | 24 35 6 | 13 20 | 18 9 | 2 34 | 12 58 | 15 4 |
| 19 | M | 9 47 44 | 25 32 54 | 13 1 | 29 59 | 1 34 | 10 1 | 15 5 |
| 20 | Tu | 9 51 41 | 26 30 43 | 12 41 | 11 m 46 | 0 30 | 6 41 | 15 7 |
| 21 | W | 9 55 37 | 27 28 33 | 12 22 | 23 33 | 0 N 35 | 3 6 | 15 8 |
| 22 | Th | 9 59 34 | 28 26 21 | 12 2 | 5 21 | 1 39 | 0 S 37 | 15 9 |
| 23 | F | 10 3 30 | 29 24 17 | 11 41 | 17 15 | 2 39 | 4 20 | 15 11 |
| 24 | S | 10 7 27 | 0 m 22 11 | 11 21 | 29 17 | 3 32 | 7 55 | 15 13 |
| 25 | S | 10 11 23 | 1 20 6 | 11 1 | 11 m 32 | 4 18 | 11 13 | 15 15 |
| 26 | M | 10 15 20 | 2 18 3 | 10 40 | 24 3 | 4 52 | 14 5 | 15 16 |
| 27 | Tu | 10 19 16 | 3 16 0 | 10 19 | 6 7 56 | 5 12 | 16 21 | 15 18 |
| 28 | W | 10 23 13 | 4 13 59 | 9 58 | 20 12 | 5 17 | 17 50 | 15 20 |
| 29 | Th | 10 27 10 | 5 12 0 | 9 37 | 3 w 56 | 5 4 | 18 20 | 15 21 |
| 30 | F | 10 31 6 | 6 10 1 | 9 15 | 18 6 | 4 33 | 17 44 | 15 23 |
| 31 | S | 10 35 3 | 7 8 4 | 8 54 | 2 m 42 | 3 43 | 15 57 | 15 25 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 38 3 | 23 S 10 | 0 N 11 | 22 N 16 | 1 N 44 | 17 N 22 | 19 16 |
| 4 | 3 2 | 23 34 | 0 18 | 21 46 | 1 35 | 15 26 | 19 6 |
| 7 | 3 2 | 23 38 | 0 26 | 21 17 | 1 23 | 13 23 | 18 57 |
| 10 | 3 1 | 23 52 | 0 33 | 20 36 | 1 6 | 11 16 | 18 47 |
| 13 | 3 0 | 24 6 | 0 39 | 19 57 | 0 47 | 9 7 | 18 38 |
| 16 | 2 59 | 24 19 | | | | | 18 28 |
| 19 | 2 58 | 24 32 | | | | | 18 19 |
| 22 | 2 56 | 24 45 | | | | | 18 9 |
| 25 | 2 55 | 24 58 | | | | | 18 0 |
| 28 | 2 54 | 25 10 | | | | | 17 51 |
| 31 | 2 53 | 25 20 | | | | | 17 41 |

| D
M | h | | m | | s | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 20 | 32 | 26 | 11 | 26 | 0 | 8 | 19 | 11 | 17 | Ω | 7 | | | | | |
| 2 | 20 | 30 | 26 | 38 | 0 | 80 | 20 | 24 | 19 | 4 | | | * | | | | |
| 3 | 20 | 28 | 26 | 49 | 0 | 52 | 21 | 37 | 20 | 57 | ☿ Δ h | | | | | * | ♈ |
| 4 | 20 | 26 | 27 | 1 | 1 | 14 | 22 | 50 | 22 | 48 | | ♈ | ☐ | | * | | |
| 5 | 20 | 24 | 27 | 13 | 1 | 37 | 24 | 3 | 24 | 38 | | | | * | ♈ | | ♈ |
| 6 | 20 | 22 | 27 | 24 | 2 | 0 | 25 | 17 | 26 | 27 | ☿ * ♈ | | Δ | | | ☐ | |
| 7 | 20 | 20 | 27 | 36 | 2 | 24 | 26 | 31 | 28 | 15 | | | | ☐ | ☐ | | Δ |
| 8 | 20 | 18 | 27 | 47 | 2 | 48 | 27 | 44 | 0 | 1 | ☉ ☐ ♈ | Δ | | | | Δ | |
| 9 | 20 | 16 | 27 | 59 | 3 | 13 | 28 | 57 | 1 | 46 | | | | ♈ | ♈ | | ☐ |
| 10 | 20 | 15 | 28 | 10 | 3 | 38 | 0 | Ω | 10 | 3 | ☿ ☐ ♈ | | | | | | Δ |
| 11 | 20 | 13 | 28 | 21 | 4 | 3 | 1 | 24 | 5 | 11 | | ☐ | ♈ | | | | |
| 12 | 20 | 12 | 28 | 32 | 4 | 29 | 2 | 38 | 6 | 51 | | | | | | ♈ | * |
| 13 | 20 | 11 | 28 | 43 | 4 | 56 | 3 | 52 | 8 | 28 | ☉ Δ h | * | | ♈ | | ♈ | ☐ |
| 14 | 20 | 10 | 28 | 54 | 5 | 23 | 5 | 5 | 10 | 4 | | | | | ♈ | | |
| 15 | 20 | 9 | 29 | 5 | 5 | 50 | 6 | 19 | 11 | 40 | ☿ Δ ♈ | | Δ | | | | * |
| 16 | 20 | 8 | 29 | 16 | 6 | 18 | 7 | 33 | 13 | 15 | | | | | | | |
| 17 | 20 | 7 | 29 | 27 | 6 | 46 | 8 | 47 | 14 | 48 | ☿ * ♈ | | | | | Δ | ♈ |
| 18 | 20 | 6 | 29 | 38 | 7 | 14 | 10 | 1 | 16 | 19 | | ♈ | ☐ | Δ | | | |
| 19 | 20 | 6 | 29 | 48 | 7 | 43 | 11 | 15 | 17 | 48 | | | | * | | | |
| 20 | 20 | 5 | 29 | 58 | 8 | 12 | 12 | 28 | 19 | 16 | | | * | | | ☐ | |
| 21 | 20 | 5 | 0 | 8 | 8 | 42 | 13 | 42 | 20 | 43 | ☿ ☐ h | | | ☐ | | | ♈ |
| 22 | 20 | 4 | 0 | 18 | 9 | 12 | 14 | 58 | 22 | 8 | ☿ ☐ h | | | | ☐ | * | |
| 23 | 20 | 4 | 0 | 28 | 9 | 43 | 15 | 10 | 23 | 32 | | | | * | | | * |
| 24 | 20 | 4 | 0 | 38 | 10 | 14 | 17 | 24 | 24 | 54 | ☉ * ♈ | * | | | Δ | | |
| 25 | 20 | 4 | 0 | 48 | 10 | 45 | 18 | 38 | 26 | 14 | | | ♈ | | | | |
| 26 | 20 | 4 | 0 | 58 | 11 | 17 | 19 | 52 | 27 | 32 | ☿ Δ h | | | | | | ☐ |
| 27 | 20 | 5 | 1 | 7 | 11 | 49 | 21 | 6 | 28 | 49 | | ☐ | | | | ♈ | * |
| 28 | 20 | 5 | 1 | 17 | 12 | 21 | 22 | 20 | 0 | 4 | | | | ♈ | | | Δ |
| 29 | 20 | 6 | 1 | 26 | 12 | 53 | 23 | 34 | 1 | 18 | ☿ ☐ ♈ | Δ | | | ♈ | | ☐ |
| 30 | 20 | 6 | 1 | 36 | 13 | 25 | 24 | 48 | 2 | 30 | | | * | | | | |
| 31 | 20 | 7 | 1 | 45 | 13 | 57 | 25 | 2 | 3 | 39 | | | | | | | Δ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jup. |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 15 | 54 | 0 N 19 | 16 8 11 | 1 N 8 | 21 8 58 | 0 8 22 |
| 4 | 15 | 54 | 0 19 | 16 13 | 1 8 | 21 58 | 0 23 |
| 7 | 15 | 55 | 0 19 | 16 15 | 1 7 | 21 59 | 0 21 |
| 10 | 15 | 56 | 0 19 | 16 17 | 1 7 | 22 0 | 0 21 |
| 13 | 15 | 57 | 0 19 | 16 19 | 1 6 | 22 1 | 0 21 |
| 16 | 15 | 57 | 0 18 | 16 21 | 1 6 | 22 2 | 0 21 |
| 19 | 15 | 58 | 0 18 | 16 23 | 1 5 | 22 3 | 0 21 |
| 22 | 15 | 59 | 0 18 | 16 25 | 1 5 | 22 4 | 0 21 |
| 25 | 16 | 0 | 0 18 | 16 27 | 1 4 | 22 5 | 0 21 |
| 28 | 16 | 0 | 0 18 | 16 30 | 1 4 | 22 6 | 0 21 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ♃
Long. | | ♃
Lat. | | ♃
Declin. | |
|--------|--------|-------------------|----|----|------------|----|--------------|------|------------|----|-----------|------|--------------|------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 10 | 38 | 59 | 8 | 46 | 8 | N 32 | 17 | 38 | 2 | N 37 | 18 | 8 |
| 2 | M | 10 | 42 | 56 | 9 | 4 | 8 | 11 | 2 | 47 | 1 | 20 | 9 | 16 |
| 3 | Tu | 10 | 46 | 52 | 10 | 2 | 7 | 49 | 18 | 0 | 0 | 8 | 4 | 49 |
| 4 | W | 10 | 50 | 49 | 11 | 0 | 7 | 27 | 3 | 8 | 1 | 27 | 0 | 5 |
| 5 | Th | 10 | 54 | 45 | 11 | 58 | 7 | 4 | 18 | 0 | 2 | 42 | 4 | N 33 |
| 6 | F | 10 | 58 | 42 | 12 | 56 | 6 | 42 | 2 | 32 | 3 | 46 | 8 | 49 |
| 7 | S | 11 | 2 | 38 | 13 | 55 | 6 | 20 | 16 | 38 | 4 | 34 | 12 | 27 |
| 8 | S | 11 | 6 | 35 | 14 | 53 | 5 | 57 | 0 | 18 | 5 | 4 | 15 | 16 |
| 9 | M | 11 | 10 | 32 | 15 | 51 | 5 | 35 | 13 | 33 | 5 | 17 | 17 | 12 |
| 10 | Tu | 11 | 14 | 29 | 16 | 50 | 5 | 12 | 26 | 24 | 5 | 14 | 18 | 11 |
| 11 | W | 11 | 18 | 25 | 17 | 48 | 4 | 49 | 8 | 55 | 4 | 56 | 18 | 14 |
| 12 | Th | 11 | 22 | 21 | 18 | 47 | 4 | 26 | 21 | 10 | 4 | 24 | 17 | 26 |
| 13 | F | 11 | 26 | 18 | 19 | 45 | 4 | 4 | 3 | 13 | 3 | 42 | 15 | 52 |
| 14 | S | 11 | 30 | 14 | 20 | 43 | 3 | 41 | 15 | 8 | 2 | 50 | 13 | 37 |
| 15 | S | 11 | 34 | 11 | 21 | 42 | 3 | 17 | 26 | 57 | 1 | 51 | 10 | 46 |
| 16 | M | 11 | 38 | 7 | 22 | 41 | 2 | 54 | 8 | 44 | 0 | 47 | 7 | 34 |
| 17 | Tu | 11 | 42 | 4 | 23 | 39 | 2 | 31 | 20 | 31 | 0 | N 18 | 4 | 2 |
| 18 | W | 11 | 46 | 1 | 24 | 38 | 2 | 8 | 2 | 21 | 1 | 23 | 0 | 20 |
| 19 | Th | 11 | 49 | 57 | 25 | 37 | 1 | 45 | 14 | 16 | 2 | 24 | 3 | 25 |
| 20 | F | 11 | 53 | 54 | 26 | 35 | 1 | 21 | 26 | 17 | 3 | 20 | 7 | 3 |
| 21 | S | 11 | 57 | 50 | 27 | 34 | 0 | 58 | 8 | 28 | 4 | 7 | 10 | 26 |
| 22 | S | 12 | 1 | 47 | 28 | 33 | 0 | 35 | 20 | 50 | 4 | 44 | 13 | 24 |
| 23 | M | 12 | 5 | 43 | 29 | 31 | 0 | 11 | 3 | 26 | 5 | 8 | 15 | 49 |
| 24 | Tu | 12 | 9 | 40 | 30 | 30 | 0 | 8 | 12 | 19 | 5 | 17 | 17 | 30 |
| 25 | W | 12 | 13 | 36 | 1 | 29 | 0 | 36 | 29 | 31 | 5 | 10 | 18 | 18 |
| 26 | Th | 12 | 17 | 33 | 2 | 28 | 0 | 59 | 13 | 5 | 4 | 45 | 18 | 5 |
| 27 | F | 12 | 21 | 30 | 3 | 27 | 1 | 23 | 27 | 3 | 4 | 4 | 16 | 47 |
| 28 | S | 12 | 25 | 26 | 4 | 26 | 1 | 46 | 11 | 22 | 3 | 6 | 14 | 24 |
| 29 | S | 12 | 29 | 23 | 5 | 25 | 2 | 9 | 26 | 2 | 1 | 55 | 11 | 3 |
| 30 | M | 12 | 33 | 19 | 6 | 24 | 2 | 33 | 10 | 59 | 0 | 35 | 6 | 55 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|----------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 28 51 | 25 52 24 | 1 N 13 | 13 N 34 | 18 54 | 38 39 | 17 37 |
| 4 | 2 49 | 25 33 | 1 17 | 11 47 | 2 21 | 5 18 | 17 28 |
| 7 | 2 47 | 25 41 | 1 19 | 11 1 | 2 47 | 6 47 | 17 18 |
| 10 | 2 45 | 25 48 | 1 22 | 9 39 | 3 10 | 8 8 | 17 9 |
| 13 | 2 43 | 25 54 | 1 24 | 8 17 | 3 31 | 9 2 | 16 59 |
| 16 | 2 40 | 25 57 | 1 26 | 6 51 | 3 46 | 9 40 | 16 50 |
| 19 | 2 38 | 26 0 | 1 26 | 5 25 | 3 54 | 9 51 | 16 40 |
| 22 | 2 35 | 26 1 | 1 26 | 3 53 | 3 52 | 9 28 | 16 31 |
| 25 | 2 33 | 26 1 | 1 26 | 2 27 | 3 35 | 8 28 | 16 21 |
| 28 | 2 30 | 25 59 | 1 28 | 0 56 | 3 2 | 6 48 | 16 12 |

| D
M | h | | u | | ♂ | | ♀ | | Mutual
Aspects. | Lunar Aspects. | | | | | | | |
|--------|-------|---------|-------|-------|-------|-------|-------|-------|--------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | | |
| 1 | 20 7 | 1 23 54 | 14 1 | 30 27 | 17 17 | 4 47 | | | | ☿ | ☉ | * | | * | | | |
| 2 | 20 8 | 2 3 15 | 4 23 | 31 5 | 58 | | | | | ☿ | ☉ | * | Δ | * | ☿ | | |
| 3 | 20 9 | 2 11 15 | 36 29 | 45 6 | 56 | | | | | | Δ | ☉ | | ☉ | | | |
| 4 | 20 10 | 2 20 16 | 12 0 | 59 7 | 58 | | | | | | | | ☉ | | | | ☿ |
| 5 | 20 11 | 2 28 16 | 46 2 | 13 8 | 54 | ♀ * ♀ | | | | | | Δ | | Δ | | | |
| 6 | 20 12 | 2 37 17 | 20 3 | 28 9 | 49 | | | | | | | | | | Δ | | |
| 7 | 20 13 | 2 43 17 | 55 4 | 43 10 | 41 | | | | | | | | | | | | |
| 8 | 20 14 | 2 53 18 | 30 6 | 57 11 | 30 | | | | | | | | | | ☉ | | |
| 9 | 20 15 | 3 1 19 | 6 7 | 11 12 | 16 | ☉ | | | | | | | | ☿ | | Δ | |
| 10 | 20 17 | 3 9 19 | 41 8 | 25 12 | 59 | | | | | | | | | | | | |
| 11 | 20 18 | 3 17 20 | 17 9 | 40 13 | 38 | ☿ ☉ h | | | | Δ | | ☉ | | * | | ☉ | |
| 12 | 20 20 | 3 25 20 | 53 10 | 55 14 | 13 | | | | | ☿ | | | | | | | |
| 13 | 20 23 | 3 32 21 | 29 12 | 16 14 | 43 | | | | | | | | | | | | |
| 14 | 20 24 | 3 39 22 | 6 13 | 24 15 | 8 | ☉ ☉ h | | | | ☉ | Δ | | | | | | * |
| 15 | 20 26 | 3 46 22 | 43 14 | 36 15 | 28 | | | | | | | | | Δ | | | |
| 16 | 20 28 | 3 53 23 | 20 15 | 53 15 | 43 | ♀ * h | | | | ☉ | ☿ | | * | | | | |
| 17 | 20 30 | 4 0 23 | 57 17 | 8 16 | 52 | | | | | ☉ | ☿ | ☉ | | ☉ | ☉ | | |
| 18 | 20 32 | 4 7 24 | 34 18 | 23 15 | 55 | ☉ ☉ δ | | | | | | | | ☉ | | | |
| 19 | 20 35 | 4 14 25 | 11 19 | 36 15 | 52 | | | | | | | | | | | | ☉ |
| 20 | 20 37 | 4 20 25 | 40 20 | 52 15 | 42 | ♀ ☉ h | | | | | | * | | * | | | |
| 21 | 20 40 | 4 26 26 | 27 22 | 7 15 | 25 | | | | | | | | | Δ | | | |
| 22 | 20 43 | 4 32 27 | 5 23 | 22 15 | 0 | | | | | | | | | | | * | |
| 23 | 20 45 | 4 38 27 | 43 24 | 37 14 | 27 | | | | | * | | ☉ | | | | | * |
| 24 | 20 46 | 4 44 28 | 22 25 | 52 13 | 48 | | | | | | | ☉ | | ☉ | | | * |
| 25 | 20 51 | 4 50 29 | 1 27 | 7 13 | 3 | | | | | ☉ | | | | ☉ | ☉ | ☉ | |
| | | | | | | | | | | | Δ | * | | | | | ☉ |
| | | | | | | | | | | ☉ | | | * | | | | ☉ |
| | | | | | | | | | | | Δ | | | | | | ☉ |
| | | | | | | | | | | | | * | | * | | | ☉ |
| | | | | | | | | | | | | | Δ | | | | ☉ |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 18 | 16 S 33 | 1 N 3 | 22 S 7 | 0 S 20 | 23 N 1 |
| 4 | 16 | 1 | 0 18 | 16 36 | 1 3 | 22 8 | 0 20 | 23 1 |
| 7 | 16 | 2 | 0 18 | 16 39 | 1 2 | 22 10 | 0 20 | 23 0 |
| 10 | 16 | 3 | 0 18 | 16 43 | 1 2 | 22 11 | 0 20 | 23 0 |
| 13 | 16 | 4 | 0 18 | 16 46 | 1 1 | 22 12 | 0 20 | 23 0 |
| 16 | 16 | 5 | 0 18 | 16 49 | 1 1 | 22 13 | 0 20 | 23 0 |
| 19 | 16 | 5 | 0 18 | 16 51 | 1 0 | 22 15 | 0 19 | 23 0 |
| 22 | 16 | 6 | 0 18 | 16 53 | 1 0 | 22 16 | 0 19 | 23 0 |
| 25 | 16 | 7 | 0 18 | 16 55 | 0 59 | 22 17 | 0 19 | 23 0 |
| 28 | 16 | 7 | 0 18 | 16 58 | 0 59 | 22 18 | 0 19 | 23 0 |
| 31 | 16 | 8 | 0 18 | 17 1 | 0 59 | 22 19 | 0 19 | 23 0 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Tu | 12 37 16 | 7 23 21 | 2 S 56 | 26 x 4 | 0 S 49 | 2 S 19 | 16 m 43 |
| 2 | W | 12 41 12 | 8 22 24 | 3 19 11 | r 9 | 2 8 | 2 N 27 | 16 46 |
| 3 | Th | 12 45 9 | 9 21 29 | 3 43 26 | 6 | 3 18 | 7 0 | 16 50 |
| 4 | F | 12 49 5 | 10 20 37 | 4 6 10 | 8 45 | 4 14 | 11 2 | 16 53 |
| 5 | S | 12 53 2 | 11 19 47 | 4 29 25 | 1 | 4 52 | 14 19 | 16 56 |
| 6 | S | 12 56 59 | 12 18 59 | 4 52 8 | 11 51 | 5 12 | 16 40 | 17 0 |
| 7 | M | 13 0 55 | 13 18 13 | 5 15 22 | 12 | 5 14 | 18 1 | 17 3 |
| 8 | Tu | 13 4 52 | 14 17 30 | 5 38 5 | 7 | 4 59 | 18 23 | 17 6 |
| 9 | W | 13 8 48 | 15 16 49 | 6 1 17 | 40 | 4 31 | 17 49 | 17 9 |
| 10 | Th | 13 12 45 | 16 16 11 | 6 24 29 | 53 | 3 51 | 16 26 | 17 12 |
| 11 | F | 13 16 41 | 17 15 35 | 6 47 11 | 53 | 3 1 | 14 20 | 17 15 |
| 12 | S | 13 20 38 | 18 15 1 | 7 10 23 | 45 | 2 5 | 11 40 | 17 18 |
| 13 | S | 13 24 34 | 19 14 30 | 7 33 5 | 31 | 1 3 | 8 31 | 17 22 |
| 14 | M | 13 28 31 | 20 14 1 | 7 55 17 | 18 | 0 N 1 | 5 3 | 17 25 |
| 15 | Tu | 13 32 27 | 21 13 34 | 8 17 29 | 8 | 1 6 | 1 21 | 17 29 |
| 16 | W | 13 36 24 | 22 13 9 | 8 40 11 | 4 | 2 8 | 2 S 26 | 17 32 |
| 17 | Th | 13 40 21 | 23 12 47 | 9 2 23 | 9 | 3 4 | 6 9 | 17 36 |
| 18 | F | 13 44 17 | 24 12 26 | 9 24 5 | m 23 | 3 53 | 9 40 | 17 40 |
| 19 | S | 13 48 14 | 25 12 8 | 9 46 17 | 49 | 4 32 | 12 45 | 17 43 |
| 20 | S | 13 52 10 | 26 11 51 | 10 7 0 | f 26 | 4 55 | 15 24 | 17 47 |
| 21 | M | 13 56 7 | 27 11 36 | 10 29 13 | 16 | 5 9 | 17 18 | 17 50 |
| 22 | Tu | 14 0 3 | 28 11 23 | 10 50 26 | 19 | 5 5 | 18 19 | 17 53 |
| 23 | W | 14 4 0 | 29 11 12 | 11 12 9 | w 36 | 4 45 | 18 23 | 17 56 |
| 24 | Th | 14 7 56 | 0 m 11 2 | 11 38 23 | 8 | 4 8 | 17 24 | 18 |
| 25 | F | 14 11 53 | 1 10 54 | 11 54 6 | m 56 | 3 17 | 15 23 | 18 |
| 26 | S | 14 15 50 | 2 10 48 | 12 15 21 | 1 | 2 13 | 12 25 | 18 |
| 27 | S | 14 19 46 | 3 10 43 | 12 35 5 | x 21 | 0 59 | 8 39 | 18 1 |
| 28 | M | 14 23 43 | 4 10 40 | 12 55 19 | 55 | 0 S 19 | 4 18 | 18 1 |
| 29 | Tu | 14 27 39 | 5 10 39 | 13 16 4 | r 38 | 1 37 | 0 N 21 | 18 1 |
| 30 | W | 14 31 36 | 6 10 39 | 13 36 19 | 25 | 2 49 | 5 0 | 18 1 |
| 31 | Th | 14 35 32 | 7 10 42 | 13 55 4 | 9 | 3 49 | 9 20 | 18 2 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 28 28 | 25 S 54 | 1 N 22 | 08 34 | 28 13 | 48 48 | 16 W 2 |
| 4 | 2 25 | 25 47 | 1 19 | 2 5 | 1 18 | 2 33 | 15 53 |
| 7 | 2 22 | 25 39 | 1 17 | 3 86 | 0 18 | 0 46 | 15 48 |
| 10 | 2 20 | 25 28 | 1 13 | 5 6 | 0 N 40 | 0 N 18 | 15 33 |
| 13 | 2 17 | 25 16 | 1 10 | 6 36 | 1 20 | 0 32 | 15 24 |
| 16 | 2 14 | 25 1 | 1 5 | 8 6 | 1 47 | 0 0 | 15 14 |
| 19 | 2 11 | 24 45 | 1 1 | 9 30 | 2 1 | 18 8 | 15 5 |
| 22 | 2 8 | 24 27 | 0 55 | 10 54 | 2 4 | 2 41 | 14 55 |
| 25 | 2 5 | 24 6 | 0 50 | 12 17 | 2 0 | 4 30 | 14 46 |
| 28 | 2 3 | 23 42 | 0 44 | 13 34 | 1 50 | 6 28 | 14 36 |
| 31 | 1 59 | 23 18 | 0 37 | 14 51 | 1 36 | 8 30 | 14 27 |

| D | h | u | ♂ | ♀ | ♂ | Mutual | Lunar Aspects. | |
|----|-------|-------|-------|-------|-------|----------|----------------|---|
| M | Long. | Long. | Long. | Long. | Long. | Aspects. | ☾ | ☽ |
| | ° | ' | | | | | | |
| 1 | 21 10 | 5 20 | | | | | | |
| 2 | 21 13 | 5 24 | | | | | ♂ | ♂ |
| 3 | 21 17 | 5 28 | | | | | | |
| 4 | 21 21 | 5 32 | | | | | | |
| 5 | 21 24 | 5 36 | | | | | | |
| 6 | 21 28 | 5 40 | | | | | Δ | Δ |
| 7 | 21 32 | 5 44 | | | | | | |
| 8 | 21 36 | 5 47 | | | | | | □ |
| 9 | 21 40 | 5 50 | | | | | □ | |
| 10 | 21 44 | 5 53 | | | | | | * |
| 11 | 21 48 | 5 56 | | | | | | |
| 12 | 21 52 | 5 59 | | | | | * | |
| 13 | 21 57 | 6 1 | | | | | | |
| 14 | 22 1 | 6 3 | | | | | | |
| 15 | 22 5 | 6 5 | | | | | | ♂ |
| 16 | 22 11 | 6 7 | 18 | 7 23 | 20 4 | 6 ☉ * ♄ | ♂ | |
| 17 | 22 15 | 6 9 | 18 | 49 24 | 35 5 | 9 ♀ □ ♄ | ♂ | * |
| 18 | 22 20 | 6 11 | 14 | 31 25 | 50 6 | 17 ♀ □ ♄ | ♂ | Δ |
| 19 | 22 25 | 6 12 | 15 | 18 27 | 6 7 | 30 | ♂ | * |
| 20 | 22 30 | 6 13 | 15 | 55 28 | 21 8 | 46 | | |
| 21 | 22 35 | 6 13 | 16 | 37 29 | 36 10 | 10 | | |
| 22 | 22 40 | 6 14 | 17 | 19 51 | 51 11 | 36 ♀ * ♄ | * | ♂ |
| 23 | 22 45 | 6 14 | 18 | 1 2 | 6 13 | 5 | | ♂ |
| 24 | 22 50 | 6 15 | 18 | 44 3 | 21 14 | 36 | * | ♂ |
| 25 | 22 55 | 6 15 | 19 | 27 4 | 37 16 | 9 | □ | □ |
| 26 | 23 0 | 6 15 | 20 | 10 5 | 52 17 | 44 ♀ Δ ♄ | □ | * |
| 27 | 23 5 | 6 15 | 20 | 53 7 | 7 19 | 20 | Δ | Δ |
| 28 | 23 11 | 6 14 | 21 | 36 6 | 22 20 | 56 ♀ □ ♄ | Δ | * |
| 29 | 23 16 | 6 13 | 22 | 19 9 | 37 22 | 33 ♀ * ♄ | Δ | □ |
| 30 | 23 21 | 6 12 | 23 | 2 10 | 52 24 | 11 ☉ Δ ♄ | Δ | □ |
| 31 | 23 27 | 6 11 | 23 | 45 11 | 7 25 | 49 | ♂ | * |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 18 | 17 S 4 | 0 N 58 | 22 S 20 | 0 S 18 | 23 N 1 |
| 4 | 16 | 10 | 0 18 | 17 7 | 0 58 | 22 21 | 0 18 | 23 2 |
| 7 | 16 | 11 | 0 18 | 17 10 | 0 57 | 22 22 | 0 18 | 23 2 |
| 10 | 16 | 12 | 0 18 | 17 14 | 0 57 | 22 23 | 0 18 | 23 3 |
| 13 | 16 | 12 | 0 18 | 17 17 | 0 57 | 22 25 | 0 17 | 23 3 |
| 16 | 16 | 13 | 0 18 | 17 19 | 0 57 | 22 26 | 0 17 | 23 4 |
| 19 | 16 | 14 | 0 18 | 17 22 | 0 56 | 22 27 | 0 17 | 23 5 |
| 22 | 16 | 14 | 0 18 | 17 24 | 0 56 | 22 28 | 0 17 | 23 6 |
| 25 | 16 | 15 | 0 18 | 17 28 | 0 55 | 22 29 | 0 16 | 23 7 |
| 28 | 16 | 15 | 0 18 | 17 31 | 0 55 | 22 30 | 0 16 | 23 8 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 14 39 29 | 8 m 10 46 | 14 S 15 | 18 8 42 | 4 S 33 | 18 N 2 | 18 m 30 |
| 2 | S | 14 43 25 | 9 10 52 | 14 34 | 2 11 57 | 4 59 | 15 53 | 18 33 |
| 3 | S | 14 47 22 | 10 11 0 | 14 53 | 16 48 | 5 6 | 17 43 | 18 37 |
| 4 | M | 14 51 19 | 11 11 10 | 15 12 | 0 51 14 | 4 57 | 18 31 | 18 40 |
| 5 | Tu | 14 55 15 | 12 11 22 | 15 31 | 18 12 | 4 32 | 18 18 | 18 44 |
| 6 | W | 14 59 12 | 13 11 36 | 15 49 | 25 49 | 3 54 | 17 10 | 18 47 |
| 7 | Th | 15 3 8 | 14 11 52 | 16 7 | 8 5 | 3 7 | 15 16 | 18 51 |
| 8 | F | 15 7 5 | 15 12 10 | 16 27 | 20 6 | 2 12 | 12 43 | 18 55 |
| 9 | S | 15 11 1 | 16 12 31 | 16 42 | 1 m 57 | 1 12 | 9 41 | 18 59 |
| 10 | S | 15 14 58 | 17 12 53 | 16 59 | 13 44 | 0 9 | 6 16 | 19 3 |
| 11 | M | 15 18 54 | 18 13 18 | 17 16 | 25 32 | 0 N 54 | 2 36 | 19 7 |
| 12 | Tu | 15 22 51 | 19 13 44 | 17 33 | 7 25 | 1 55 | 18 11 | 19 10 |
| 13 | W | 15 26 48 | 20 14 13 | 17 49 | 19 28 | 2 51 | 4 59 | 19 14 |
| 14 | Th | 15 30 44 | 21 14 42 | 18 5 | 1 m 44 | 3 41 | 8 38 | 19 18 |
| 15 | F | 15 34 41 | 22 15 14 | 18 21 | 14 14 | 4 20 | 11 59 | 19 22 |
| 16 | S | 15 38 37 | 23 15 48 | 18 36 | 26 58 | 4 48 | 14 50 | 19 25 |
| 17 | S | 15 42 34 | 24 16 23 | 18 51 | 9 57 | 5 17 | 0 | 19 29 |
| 18 | M | 15 46 30 | 25 16 59 | 19 6 | 23 | 4 58 | 18 19 | 19 33 |
| 19 | Tu | 15 50 27 | 26 17 37 | 19 21 | 6 w 3 | 4 40 | 18 39 | 19 36 |
| 20 | W | 15 54 23 | 27 18 16 | 19 35 | 20 | 4 51 | 17 55 | 19 40 |
| 21 | Th | 15 58 20 | 28 18 56 | 19 48 | 3 m 4 | 3 16 | 16 8 | 19 44 |
| 22 | F | 16 2 17 | 29 19 38 | 20 21 | 17 40 | 2 15 | 13 25 | 19 48 |
| 23 | S | 16 6 13 | 0 20 21 | 20 14 | 1 x 38 | 1 5 | 9 53 | 19 51 |
| 24 | S | 16 10 10 | 1 21 4 | 20 37 | 15 44 | 0 S 10 | 5 46 | 19 55 |
| 25 | M | 16 14 6 | 2 21 49 | 20 39 | 29 58 | 1 24 | 1 18 | 19 59 |
| 26 | Tu | 16 18 3 | 3 22 34 | 20 51 | 14 r 16 | 2 33 | 3 N 17 | 20 2 |
| 27 | W | 16 21 59 | 4 23 21 | 21 2 | 28 8 | 3 33 | 7 40 | 20 6 |
| 28 | Th | 16 25 56 | 5 24 9 | 21 13 | 12 8 56 | 4 1 | 11 37 | 20 10 |
| 29 | F | 16 29 52 | 6 24 58 | 21 24 | 27 | 4 4 | 14 51 | 20 14 |
| 30 | S | 16 33 49 | 7 25 48 | 21 34 | 11 11 | 5 | 17 10 | 20 17 |

1811.]

23

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' | |
| 1 | 18 57 | 23 S 10 | 0 N 36 | 15 S 18 | 1 N 31 | 9 S 10 | 14 w 23 |
| 4 | 1 54 | 22 40 | 0 29 | 16 28 | 1 14 | 11 10 | 14 13 |
| 7 | 1 51 | 22 14 | 0 22 | 17 38 | 0 55 | 13 6 | 14 4 |
| 10 | 1 48 | 21 41 | 0 15 | 18 38 | 0 35 | 14 57 | 13 54 |
| 13 | 1 44 | 21 9 | 0 8 | 19 42 | 0 14 | 16 42 | 13 45 |
| 16 | 1 41 | 20 33 | 0 1 | 20 35 | 0 S 5 | 18 20 | 13 35 |
| 19 | 1 37 | 19 57 | 0 S 6 | 21 26 | 0 26 | 19 50 | 13 26 |
| 22 | 1 34 | 19 17 | 0 12 | 22 6 | 0 45 | 21 10 | 13 16 |
| 25 | 1 31 | 18 39 | 0 21 | 22 47 | 1 3 | 22 22 | 13 7 |
| 28 | 1 28 | 17 57 | 0 29 | 23 22 | 1 20 | 23 23 | 12 57 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|---------|---------|--------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 23 33 | 6 10 | 24 w 28 | 13 m 23 | 27 28 | | | ♈ | | | Δ | ♈ |
| 2 | 23 38 | 6 R 8 | 25 11 | 14 38 | 29 6 | | | | | | | |
| 3 | 23 44 | 6 6 | 25 54 | 15 53 | 0 m 44 | | | | | | | |
| 4 | 23 50 | 6 4 | 26 37 | 17 8 | 2 23 | | | | ♈ | ♈ | | Δ |
| 5 | 23 56 | 6 2 | 27 20 | 18 23 | 4 2 | ♀ ☉ ♀ | Δ | Δ | | | | Δ |
| 6 | 24 2 | 6 0 | 28 4 | 19 38 | 5 40 | ♀ Δ ♀ | | | | | ♈ | |
| 7 | 24 8 | 5 58 | 28 48 | 20 54 | 7 18 | | | | | | | □ |
| 8 | 24 14 | 5 55 | 29 31 | 22 9 | 8 56 | | □ | □ | Δ | | | □ |
| 9 | 24 20 | 5 52 | 0 m 15 | 23 24 | 10 34 | | | | | * | | |
| 10 | 24 26 | 5 48 | 0 59 | 24 39 | 12 11 | | * | * | | | | * |
| 11 | 24 32 | 5 45 | 1 43 | 25 54 | 13 48 | | | | □ | | | * |
| 12 | 24 38 | 5 42 | 2 27 | 27 10 | 15 25 | ☉ ☉ ♀ | | | | □ | Δ | |
| 13 | 24 45 | 5 38 | 3 11 | 28 26 | 17 1 | | | | * | | | |
| 14 | 24 51 | 5 34 | 3 55 | 29 41 | 18 87 | ♀ ☉ ♀ | | | | Δ | □ | |
| 15 | 24 57 | 5 30 | 4 39 | 0 56 | 20 13 | | | ♈ | | | | |
| 16 | 25 4 | 5 25 | 5 23 | 2 11 | 21 49 | | ♈ | | | | | ♈ |
| 17 | 25 10 | 5 21 | 6 7 | 3 26 | 23 24 | | | | | | * | ♈ |
| 18 | 25 16 | 5 17 | 6 52 | 4 42 | 24 59 | | | ♈ | | | | |
| 19 | 25 23 | 5 12 | 7 37 | 5 58 | 26 34 | ☉ ☉ ♀ | | | | ♈ | | |
| 20 | 25 29 | 5 7 | 8 21 | 7 13 | 28 9 | | | * | | | | |
| 21 | 25 36 | 5 2 | 9 6 | 8 28 | 29 44 | | * | | | | ♈ | * |
| 22 | 25 42 | 4 56 | 9 50 | 9 43 | 1 18 | ♀ * ♀ | | □ | | | | * |
| 23 | 25 49 | 4 51 | 10 35 | 10 58 | 2 53 | | □ | | * | Δ | | □ |
| 24 | 25 55 | 4 46 | 11 19 | 12 13 | 4 27 | | Δ | Δ | | | | □ |
| 25 | 26 2 | 4 40 | 12 4 | 13 29 | 6 1 | | Δ | | □ | □ | | Δ |
| 26 | 26 8 | 4 34 | 12 48 | 14 44 | 7 35 | | | | | | * | Δ |
| 27 | 26 15 | 4 28 | 13 33 | 15 59 | 9 9 | | | | Δ | * | | |
| 28 | 26 22 | 4 21 | 14 17 | 17 14 | 10 42 | | | ♈ | | | □ | |
| 29 | 26 29 | 4 15 | 15 2 | 18 29 | 12 16 | | | | | | | |
| 30 | 26 36 | 4 9 | 15 47 | 19 45 | 13 49 | | ♈ | | | | Δ | ♈ |

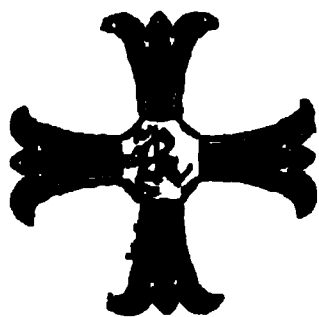
DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 18 | 17 S 34 | 0 N 55 | 22 S 30 | 0 S 16 | 23 N 8 |
| 4 | 16 | 15 | 0 18 | 17 37 | 0 55 | 22 31 | 0 16 | 23 9 |
| 7 | 16 | 16 | 0 18 | 17 40 | 0 54 | 22 32 | 0 15 | 23 10 |
| 10 | 16 | 16 | 0 18 | 17 43 | 0 54 | 22 33 | 0 15 | 23 11 |
| 13 | 16 | 16 | 0 18 | 17 46 | 0 54 | 22 33 | 0 14 | 23 12 |
| 16 | 16 | 16 | 0 18 | 17 48 | 0 54 | 22 34 | 0 14 | 23 13 |
| 19 | 16 | 17 | 0 18 | 17 50 | 0 53 | 22 34 | 0 13 | 23 14 |
| 22 | 16 | 17 | 0 18 | 17 52 | 0 53 | 22 35 | 0 13 | 23 15 |
| 25 | 16 | 17 | 0 18 | 17 55 | 0 53 | 22 35 | 0 12 | 23 15 |
| 28 | 16 | 17 | 0 18 | 17 57 | 0 53 | 22 36 | 0 12 | 23 16 |
| 31 | 16 | 17 | 0 18 | 18 0 | 0 52 | 22 36 | 0 12 | 23 16 |

| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♃
Long.
° ' " | ♃
Lat.
° ' " | ♃
Declin.
° ' " | ♃
Long.
° ' " |
|--------|--------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| 1 | S | 16 37 46 | 8 26 39 | 21 S 44 | 24 14 47 | 4 S 54 | 18 N 27 | 20 21 |
| 2 | M | 16 41 42 | 9 27 32 | 21 53 | 8 50 0 | 4 32 18 | 41 | 20 24 |
| 3 | Tu | 16 45 39 | 10 28 25 | 22 2 | 21 4 | 3 57 17 | 55 | 20 28 |
| 4 | W | 16 49 35 | 11 29 20 | 22 11 | 3 24 40 | 3 10 16 | 16 | 20 32 |
| 5 | Th | 16 53 32 | 12 30 16 | 22 19 | 15 57 | 2 16 13 | 55 | 20 35 |
| 6 | F | 16 57 28 | 13 31 14 | 22 27 | 27 59 | 1 16 11 | 0 | 20 38 |
| 7 | S | 17 1 25 | 14 32 12 | 22 34 | 9 52 | 0 14 7 | 40 | 20 42 |
| 8 | S | 17 5 21 | 15 33 12 | 22 41 | 21 39 | 0 N 49 | 4 3 | 20 46 |
| 9 | M | 17 9 18 | 16 34 14 | 22 47 | 3 28 | 1 49 0 | 17 | 20 50 |
| 10 | Tu | 17 13 15 | 17 35 16 | 22 53 | 15 24 | 2 45 3 | 38 | 20 53 |
| 11 | W | 17 17 11 | 18 36 19 | 22 58 | 27 31 | 3 35 7 | 15 | 20 56 |
| 12 | Th | 17 21 8 | 19 37 24 | 23 3 | 9 54 | 4 15 10 | 45 | 21 0 |
| 13 | F | 17 25 4 | 20 38 29 | 23 8 | 22 35 | 4 44 13 | 51 | 21 3 |
| 14 | S | 17 29 1 | 21 39 36 | 23 12 | 5 36 | 4 59 16 | 21 | 21 7 |
| 15 | S | 17 32 57 | 22 40 42 | 23 16 | 18 56 | 4 58 18 | 3 | 21 10 |
| 16 | M | 17 36 54 | 23 41 50 | 23 19 | 2 38 | 4 41 18 | 45 | 21 14 |
| 17 | Tu | 17 40 50 | 24 42 58 | 23 21 | 16 23 | 4 7 18 | 23 | 21 17 |
| 18 | W | 17 44 47 | 25 44 7 | 23 24 | 0 23 | 3 17 16 | 53 | 21 20 |
| 19 | Th | 17 48 44 | 26 45 16 | 23 25 | 14 28 | 2 15 14 | 21 | 21 23 |
| 20 | F | 17 52 40 | 27 46 25 | 23 27 | 28 35 | 1 5 10 | 58 | 21 26 |
| 21 | S | 17 56 37 | 28 47 35 | 23 27 | 12 43 | 0 S 10 | 6 57 | 21 29 |
| 22 | S | 18 0 33 | 29 48 44 | 23 28 | 26 49 | 1 24 2 | 33 | 21 32 |
| 23 | M | 18 4 30 | 0 49 54 | 23 28 | 10 53 | 2 32 1 | N 58 | 21 35 |
| 24 | Tu | 18 8 27 | 1 51 3 | 23 27 | 24 55 | 3 32 6 | 22 | 21 38 |
| 25 | W | 18 12 24 | 2 52 13 | 23 26 | 8 52 | 4 18 10 | 23 | 21 42 |
| 26 | Th | 18 16 21 | 3 53 23 | 23 24 | 22 44 | 4 49 13 | 49 | 21 45 |
| 27 | F | 18 20 18 | 4 54 32 | 23 22 | 6 27 | 5 2 16 | 26 | 21 48 |
| 28 | S | 18 24 14 | 5 55 42 | 23 20 | 20 0 | 4 59 18 | 7 | 21 51 |
| 29 | S | 18 28 11 | 6 56 51 | 23 17 | 3 19 | 4 39 18 | 46 | 21 54 |
| 30 | M | 18 32 8 | 7 58 1 | 23 13 | 16 22 | 4 3 18 | 25 | 21 57 |
| 31 | Tu | 18 36 4 | 8 59 11 | 23 9 | 29 28 | 3 19 17 | 7 | 21 59 |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES
For 1812.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

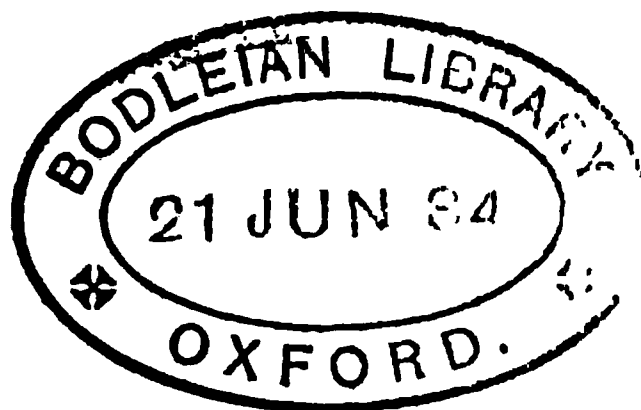
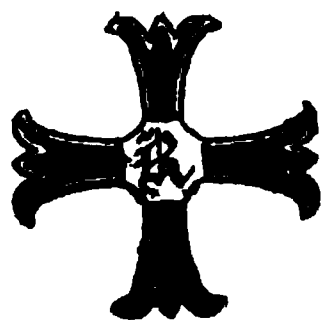
(Alm.) 739 t. 15:

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1812.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR,
1883.

Price One Shilling.

1875

JANUARY XXXI DAYS.

| | Mars. | | Venus. | | Mercury. | | Moon's
Place. | |
|----|-------|---------|--------|---------|----------|---------|------------------|----|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 08 50 | 88 42 | 18 30 | 21 34 0 | 08 40 | 20 35 8 | 11 | 10 |
| 4 | 0 47 | 7 47 | 1 38 | 20 5 | 0 N 6 | 19 55 | 11 | 0 |
| 7 | 0 44 | 6 52 | 1 36 | 19 58 | 1 0 | 19 2 | 10 | 51 |
| 10 | 0 41 | 5 57 | 1 36 | 18 57 | 1 56 | 18 23 | 10 | 41 |
| 13 | 0 38 | 5 2 | 1 37 | 17 56 | 2 46 | 18 16 | 10 | 31 |
| 16 | 0 35 | 4 7 | 1 37 | 16 46 | 3 19 | 18 23 | 10 | 22 |
| 19 | 0 32 | 3 12 | 1 37 | 15 36 | 3 30 | 18 43 | 10 | 12 |
| 22 | 0 29 | 2 15 | 1 36 | 14 7 | 3 21 | 19 10 | 10 | 3 |
| 25 | 0 26 | 1 19 | 1 34 | 13 1 | 2 58 | 19 40 | 9 | 53 |
| 28 | 0 23 | 0 24 | 1 32 | 11 37 | 2 29 | 20 9 | 9 | 44 |
| 31 | 0 20 | 0 N 33 | 1 29 | 10 8 | 1 56 | 20 33 | 9 | 34 |

| | h | ♂ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|----|---------|--------|--------|--------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♂ | ♂ | ♀ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 0w21 | 0 55 1 | 9 x 46 | 29w51 | 29w11 | | | | | | | | |
| 2 | 0 28 29 | 1 53 | 10 81 | 1m 6 | 29 51 | | | ☐ | Δ | * | | | |
| 3 | 0 35 29 | 2 45 | 11 16 | 2 21 | 0m23 | | | | | | | | |
| 4 | 0 42 29 | 38 | 12 1 | 3 36 | 0 44 | | Δ | * | | | ♂ | | |
| 5 | 0 49 29 | 80 | 12 46 | 4 51 | 0 56 | | | | ☐ | ■ | | Δ | Δ |
| 6 | 0 56 29 | 22 13 | 31 6 | 6 6 | 0 57 | | ☐ | | | | | | |
| 7 | 1 3 29 | 15 14 | 16 7 | 21 0 | 47 | | | | | Δ | | | |
| 8 | 1 10 29 | 7 15 | 1 8 | 36 0 | 25 | | | | * | | | ☐ | ☐ |
| 9 | 1 17 29 | 0 15 | 46 9 | 51 29w | 50 | | ☿ | ♂ | | | Δ | | |
| 10 | 1 24 28 | 53 16 | 31 11 | 6 29 | 4 | | | | | | | | * |

| | | | | |
|----|-------|-------|----|--|
| 1 | 31 28 | 46 17 | 16 | |
| 2 | 38 28 | 39 18 | 1 | |
| 3 | 44 28 | 32 18 | 44 | |
| 4 | 51 28 | 25 18 | 30 | |
| 5 | 58 28 | 19 20 | 16 | |
| 6 | 4 28 | 12 21 | 0 | |
| 7 | 11 28 | 6 21 | 45 | |
| 8 | 18 27 | 59 22 | 30 | |
| 9 | 24 27 | 53 23 | 14 | |
| 10 | 31 27 | 47 23 | 59 | |
| 11 | 37 27 | 42 24 | 44 | |
| 12 | 44 27 | 36 25 | 28 | |
| 13 | 50 27 | 31 26 | 13 | |
| 14 | 57 27 | 25 26 | 58 | |
| 15 | 3 27 | 20 27 | 42 | |
| 16 | 9 27 | 15 28 | 26 | |
| 17 | 16 27 | 10 29 | 11 | |
| 18 | 22 27 | 6 29 | 55 | |
| 19 | 29 27 | 1 0 | 40 | |
| 20 | 35 26 | 57 1 | 24 | |
| 21 | 41 26 | 52 2 | 9 | |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|-------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 18 | 18 S 17 | 0 N 52 | 22 S 33 | 0 S 6 | 23 N |
| 4 | 16 | 15 | 0 18 | 18 18 | 0 52 | 22 33 | 0 6 | 23 |
| 7 | 16 | 14 | 0 18 | 18 19 | 0 51 | 22 32 | 0 6 | 23 |
| 10 | 16 | 14 | 0 18 | 18 20 | 0 51 | 22 32 | 0 5 | 23 |
| 18 | 16 | 13 | 0 18 | 18 20 | 0 51 | 22 31 | 0 5 | 23 |
| 16 | 16 | 12 | 0 18 | 18 20 | 0 51 | 22 30 | 0 4 | 23 |
| 19 | 16 | 11 | 0 18 | 18 20 | 0 51 | 22 29 | 0 4 | 23 |
| 22 | 16 | 11 | 0 18 | 18 21 | 0 51 | 22 29 | 0 4 | 23 |
| 25 | 16 | 10 | 0 18 | 18 21 | 0 51 | 22 28 | 0 3 | 23 |
| 28 | 16 | 10 | 0 18 | 18 21 | 0 51 | 22 28 | 0 3 | 23 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | | | ☉
Declin | | | ☽
Long. | | | ☽
Lat. | | | ☽
Declin | | | ☽
Lon |
|--------|--------|-------------------|------------|---|-------|-------------|---|-------|------------|----|---|-----------|-------|---|-------------|----|---|----------|
| | | H. M. S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° |
| 1 | S | 20 42 14 | 11 | m | 33 42 | 17 | S | 20 25 | m | 50 | 1 | N | 36 8 | N | 8 | 23 | m | |
| 2 | S | 20 46 11 | 12 | | 34 33 | 17 | | 3 7 | △ | 37 | 2 | | 35 0 | S | 39 | 23 | | |
| 3 | M | 20 50 8 | 13 | | 35 22 | 16 | | 46 19 | | 26 | 3 | | 28 4 | | 24 | 23 | | |
| 4 | Tu | 20 54 5 | 14 | | 36 11 | 16 | | 28 1 | m | 21 | 4 | | 13 8 | | 0 | 23 | | |
| 5 | W | 20 58 2 | 15 | | 36 59 | 16 | | 10 13 | | 26 | 4 | | 47 11 | | 19 | 23 | | |
| 6 | Th | 21 1 59 | 16 | | 37 46 | 15 | | 52 25 | | 47 | 5 | | 9 14 | | 13 | 23 | | |
| 7 | F | 21 5 55 | 17 | | 38 32 | 15 | | 34 8 | f | 28 | 5 | | 16 16 | | 32 | 23 | | |
| 8 | S | 21 9 52 | 18 | | 39 16 | 15 | | 15 21 | | 33 | 5 | | 8 18 | | 4 | 23 | | |
| 9 | S | 21 13 48 | 19 | | 40 0 | 14 | | 56 5 | w | 4 | 4 | | 42 18 | | 40 | 23 | | |
| 10 | M | 21 17 45 | 20 | | 40 42 | 14 | | 37 19 | | 1 | 3 | | 59 18 | | 10 | 23 | | |
| 11 | Tu | 21 21 41 | 21 | | 41 23 | 14 | | 18 3 | m | 23 | 3 | | 0 16 | | 29 | 23 | | |
| 12 | W | 21 25 38 | 22 | | 42 3 | 13 | | 58 18 | | 5 | 1 | | 48 13 | | 42 | 23 | | |
| 13 | Th | 21 29 34 | 23 | | 42 41 | 13 | | 38 2 | x | 59 | 0 | | 28 9 | | 59 | 23 | | |
| 14 | F | 21 33 31 | 24 | | 43 18 | 13 | | 18 17 | | 59 | 0 | S | 55 5 | | 36 | 23 | | |
| 15 | S | 21 37 28 | 25 | | 43 53 | 12 | | 57 2 | r | 54 | 2 | | 14 0 | | 53 | 23 | | |
| 16 | S | 21 41 24 | 26 | | 44 26 | 12 | | 37 17 | | 39 | 3 | | 23 3 | N | 48 | 23 | | |
| 17 | M | 21 45 21 | 27 | | 44 58 | 12 | | 16 2 | 8 | 7 | 4 | | 17 8 | | 11 | 23 | | |
| 18 | Tu | 21 49 17 | 28 | | 45 27 | 11 | | 55 16 | | 16 | 4 | | 55 12 | | 0 | 23 | | |
| 19 | W | 21 53 14 | 29 | | 45 55 | 11 | | 34 0 | Π | 3 | 5 | | 15 15 | | 3 | 23 | | |
| 20 | Th | 21 57 10 | 0 | x | 46 21 | 11 | | 13 13 | | 30 | 5 | | 16 17 | | 12 | 23 | | |
| 21 | F | 22 1 7 | 1 | | 46 44 | 10 | | 51 26 | | 37 | 5 | | 1 18 | | 24 | 23 | | |
| 22 | S | 22 5 3 | 2 | | 47 6 | 10 | | 29 9 | ☿ | 28 | 4 | | 31 18 | | 36 | 23 | | |
| 23 | S | 22 9 0 | 3 | | 47 26 | 10 | | 8 22 | | 3 | 3 | | 49 17 | | 53 | 23 | | |
| 24 | M | 22 12 56 | 4 | | 47 43 | 9 | | 46 4 | Ω | 25 | 2 | | 56 16 | | 19 | 23 | | |
| 25 | Tu | 22 16 53 | 5 | | 47 59 | 9 | | 24 16 | | 37 | 1 | | 56 14 | | 1 | 23 | | |
| 26 | W | 22 20 50 | 6 | | 48 13 | 9 | | 1 28 | | 40 | 0 | | 52 11 | | 8 | 23 | H | |
| 27 | Th | 22 24 46 | 7 | | 48 25 | 8 | | 39 10 | m | 36 | 0 | N | 14 7 | | 49 | 23 | | |
| 28 | F | 22 28 43 | 8 | | 48 35 | 8 | | 16 22 | | 27 | 1 | | 19 4 | | 13 | 23 | | |
| 29 | S | 22 32 39 | 9 | | 48 44 | 7 | | 54 4 | △ | 16 | 2 | | 21 0 | | 27 | 23 | | |

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 08 20 | 0 N 50 | 1 S 27 | 9 S 45 | 1 N 45 | 20 S 40 | 9 31 |
| 4 | 0 17 | 1 45 | 1 23 | 8 16 | 1 11 | 20 55 | 9 31 |
| 7 | 0 14 | 2 41 | 1 18 | 6 46 | 0 40 | 21 2 | 9 12 |
| 10 | 0 11 | 3 35 | 1 13 | 5 13 | 0 10 | 20 59 | 9 2 |
| 13 | 0 9 | 4 29 | 1 7 | 3 42 | 0 S 17 | 20 46 | 8 53 |
| 16 | 0 6 | 5 23 | 1 0 | 2 6 | 0 42 | 20 21 | 8 43 |
| 19 | 0 4 | 6 16 | 0 54 | 0 34 | 1 5 | 19 46 | 8 34 |
| 22 | 0 2 | 7 8 | 0 46 | 1 N 4 | 1 24 | 18 59 | 8 24 |
| 25 | 0 N 1 | 8 0 | 0 38 | 2 35 | 1 40 | 18 0 | 8 15 |
| 28 | 0 3 | 8 53 | 0 31 | 4 11 | 1 53 | 16 49 | 8 5 |

| D
M | h
Long. | M
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. |
|--------|------------|------------|------------|------------|------------|------------------|
| 1 | 3w47 | 26 48 | 2r53 | 8x28 | 16w54 | |
| 2 | 3 59 | 26 44 | 8 38 | 9 18 | 17 29 | ♂ □ h |
| 3 | 3 59 | 26 41 | 4 22 | 10 57 | 18 13 | |
| 4 | 4 5 | 26 38 | 5 6 | 12 11 | 19 6 | |
| 5 | 4 11 | 26 35 | 5 50 | 13 25 | 20 0 | |
| 6 | 4 17 | 26 32 | 6 34 | 14 39 | 20 55 | |
| 7 | 4 22 | 26 29 | 7 18 | 15 53 | 21 51 | |
| 8 | 4 28 | 26 26 | 8 2 | 17 7 | 22 50 | |
| 9 | 4 34 | 26 24 | 8 46 | 18 21 | 23 58 | ♀ * h |
| 10 | 4 39 | 26 22 | 9 30 | 19 35 | 1 | |
| 11 | 4 45 | 26 20 | 10 14 | 20 49 | 26 10 | |
| 12 | 4 51 | 26 18 | 10 58 | 22 3 | 27 20 | |
| 13 | 4 56 | 26 16 | 11 42 | 23 16 | 28 31 | ⊙ □ h |
| 14 | 5 1 | 26 15 | 12 26 | 24 30 | 29 44 | ♀ Δ h |
| 15 | 5 7 | 26 14 | 13 10 | 25 44 | 0m59 | ♀ □ h |
| 16 | 5 12 | 26 13 | 13 54 | 26 57 | 2 17 | ⊙ Δ h |
| 17 | 5 18 | 26 12 | 14 38 | 28 11 | 3 36 | |
| 18 | 5 23 | 26 11 | 15 22 | 29 25 | 4 56 | |
| 19 | 5 28 | 26 11 | 16 6 | 0r38 | 6 17 | |
| 20 | 5 33 | 26 11 | 16 49 | 1 52 | 7 39 | |
| 21 | 5 38 | 26 11 | 17 33 | 3 6 | | |
| 22 | 5 43 | 26 11 | 18 16 | 4 18 | | |
| 23 | 5 48 | 26 11 | 19 0 | 6 32 | | |
| 24 | 5 53 | 26 12 | 19 44 | 6 45 | | |
| 25 | 5 57 | 26 13 | 20 28 | 7 58 | | |
| 26 | 6 2 | 26 14 | 21 11 | 9 11 | 16 20 | |
| 27 | 6 6 | 26 15 | 21 54 | 10 24 | 17 51 | |
| 28 | 6 11 | 26 16 | 22 38 | 11 37 | 19 22 | |
| 29 | 6 15 | 26 18 | 23 21 | 12 50 | 20 56 | |

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

| 8 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | 1812. |
|-----------------|-------------------|-----------------------------------|-----------|------------|-------------|------------|-----------|-------------|------------|---------|---------|----------|
| APRIL XXX DAYS. | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 18 | 18 S 14 | 0 N 52 | 22 S 21 | 0 N 1 | 23 N 29 | | | | |
| 4 | 16 | 0 | 0 18 | 18 12 | 0 52 | 22 21 | 0 1 | 23 29 | | | | |
| 7 | 15 | 59 | 0 18 | 18 10 | 0 52 | 22 21 | 0 2 | 23 30 | | | | |
| 10 | 15 | 58 | 0 18 | 18 9 | 0 52 | 22 21 | 0 2 | 23 30 | | | | |
| 13 | 15 | 58 | 0 18 | 18 7 | 0 52 | 22 21 | 0 3 | 23 30 | | | | |
| 16 | 15 | 57 | 0 18 | 18 6 | 0 52 | 22 21 | 0 3 | 23 30 | | | | |
| 19 | 15 | 56 | 0 18 | 18 5 | 0 53 | 22 21 | 0 3 | 23 30 | | | | |
| 22 | 15 | 56 | 0 18 | 18 4 | 0 53 | 22 21 | 0 3 | 23 30 | | | | |
| 25 | 15 | 55 | 0 18 | 18 2 | 0 53 | 22 21 | 0 4 | 23 30 | | | | |
| 28 | 15 | 54 | 0 18 | 18 0 | 0 53 | 22 21 | 0 4 | 23 30 | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. | | | |
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | " | |
| 1 | W | 0 | 38 | 49 | 11 | 36 | 44 | 4 N 36 | 1 1 | 5 N 10 | 15 S 19 | 22 55 |
| 2 | Th | 0 | 42 | 45 | 12 | 35 | 47 | 4 59 | 13 25 | 5 10 | 17 18 | 22 55 |
| 3 | F | 0 | 46 | 42 | 13 | 34 | 49 | 5 22 | 26 2 | 4 56 | 18 29 | 22 55 |
| 4 | S | 0 | 50 | 39 | 14 | 33 | 49 | 5 45 | 8 57 | 4 26 | 18 44 | 22 50 |
| 5 | S | 0 | 54 | 35 | 15 | 32 | 47 | 6 8 | 22 12 | 3 42 | 17 59 | 22 45 |
| 6 | M | 0 | 58 | 32 | 16 | 31 | 43 | 6 30 | 5 49 | 2 44 | 16 11 | 22 40 |
| 7 | Tu | 1 | 2 | 28 | 17 | 30 | 38 | 6 53 | 19 52 | 1 34 | 13 23 | 22 40 |
| 8 | W | 1 | 6 | 25 | 18 | 29 | 31 | 7 15 | 4 18 | 0 17 | 9 41 | 22 40 |
| 9 | Th | 1 | 10 | 21 | 19 | 28 | 23 | 7 38 | 19 6 | 1 8 | 3 5 | 17 22 40 |
| 10 | F | 1 | 14 | 18 | 20 | 27 | 12 | 8 0 | 4 11 | 2 20 | 0 29 | 22 30 |
| 11 | S | 1 | 18 | 14 | 21 | 26 | 0 | 8 22 | 19 23 | 3 28 | 4 N 23 | 22 30 |
| 12 | S | 1 | 22 | 11 | 22 | 24 | 45 | 8 44 | 4 33 | 4 20 | 8 58 | 22 30 |
| 13 | M | 1 | 26 | 8 | 23 | 23 | 28 | 9 6 | 19 31 | 4 54 | 12 54 | 22 30 |
| 14 | Tu | 1 | 30 | 4 | 24 | 22 | 10 | 9 27 | 4 11 | 5 8 | 15 56 | 22 30 |
| 15 | W | 1 | 34 | 1 | 25 | 20 | 50 | 9 49 | 18 18 | 5 3 | 17 55 | 22 20 |
| 16 | Th | 1 | 37 | 57 | 26 | 19 | 27 | 10 10 | 1 58 | 4 40 | 18 47 | 22 20 |
| 17 | F | 1 | 41 | 54 | 27 | 18 | 1 | 10 31 | 15 10 | 4 2 | 18 35 | 22 20 |
| 18 | S | 1 | 45 | 50 | 28 | 16 | 34 | 10 52 | 27 57 | 3 14 | 17 25 | 22 20 |
| 19 | S | 1 | 49 | 47 | 29 | 15 | 5 | 11 13 | 10 21 | 2 18 | 15 27 | 22 20 |
| 20 | M | 1 | 53 | 43 | 0 | 13 | 33 | 11 34 | 22 30 | 1 16 | 12 50 | 22 15 |
| 21 | Tu | 1 | 57 | 40 | 1 | 11 | 59 | 11 54 | 4 26 | 0 13 | 9 42 | 22 16 |
| 22 | W | 2 | 1 | 37 | 2 | 10 | 23 | 12 14 | 16 16 | 0 N 51 | 6 12 | 22 14 |
| 23 | Th | 2 | 5 | 33 | 3 | 8 | 45 | 12 34 | 28 3 | 1 52 | 2 29 | 22 12 |
| 24 | F | 2 | 9 | 29 | 4 | 7 | 5 | 12 54 | 9 51 | 2 48 | 1 S 20 | 22 10 |
| 25 | S | 2 | 13 | 26 | 5 | 5 | 23 | 13 14 | 21 43 | 3 37 | 5 7 | 22 8 |
| 26 | S | 2 | 17 | 21 | 6 | 3 | 40 | 13 33 | 3 41 | 4 16 | 8 44 | 22 6 |
| 27 | M | 2 | 21 | 17 | 7 | 1 | 54 | 13 52 | 15 47 | 4 43 | 12 2 | 22 4 |
| 28 | Tu | 2 | 25 | 13 | 8 | 0 | 7 | 14 11 | 28 1 | 5 1 | 14 51 | 22 1 |
| 29 | W | 2 | 29 | 9 | 8 | 58 | 18 | 14 30 | 10 25 | 5 3 | 17 2 | 21 59 |
| 30 | Th | 2 | 33 | 5 | 9 | 56 | 28 | 14 46 | 23 0 | 4 50 | 18 27 | 21 56 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 41 | 22 N 9 | 2 N 34 | 26 N 6 | 1 N 59 | 20 N 43 | 4 45 |
| 4 | 0 42 | 22 29 | 2 49 | 26 13 | 1 21 | 19 55 | 4 35 |
| 7 | 0 44 | 22 49 | 2 53 | 26 20 | 0 35 | 18 49 | 4 26 |
| 10 | 0 46 | 23 7 | 2 56 | 26 17 | 0 S 17 | 17 33 | 4 16 |
| 13 | 0 47 | 23 23 | 2 57 | 26 12 | 1 9 | 16 14 | 4 7 |
| 16 | 0 48 | 23 37 | 2 57 | 25 59 | 1 57 | 15 1 | 3 57 |
| 19 | 0 49 | 23 49 | 2 57 | 25 42 | 2 39 | 14 1 | 3 48 |
| 22 | 0 50 | 24 1 | 2 54 | 25 20 | 3 11 | 13 20 | 3 38 |
| 25 | 0 51 | 24 7 | 2 51 | 24 53 | 3 34 | 13 0 | 3 29 |
| 28 | 0 53 | 24 13 | 2 46 | 24 22 | 3 46 | 13 1 | 3 19 |
| 31 | 0 54 | 24 19 | 2 38 | 24 47 | 3 50 | 13 21 | 3 10 |

| D
M | h | | ♈ | | ♉ | | ♊ | | ♋ | | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | | |
| 1 | 7 | 52 | 3 | 15 | 6 | 49 | 24 | 48 | 24 | 8 | 1 | Δ | | ♈ | ♉ | | | | |
| 2 | 7 | 50 | 3 | 25 | 7 | 30 | 25 | 53 | 23 | 54 | | | * | | | | | | Δ |
| 3 | 7 | 49 | 3 | 36 | 8 | 11 | 26 | 57 | 23 | 39 | | | | | | Δ | | | |
| 4 | 7 | 47 | 3 | 47 | 8 | 51 | 28 | 1 | 23 | 16 | | □ | | | | | | | |
| 5 | 7 | 46 | 3 | 58 | 9 | 32 | 29 | 5 | 22 | 51 | | | □ | | | Δ | | Δ | □ |
| 6 | 7 | 44 | 4 | 9 | 10 | 13 | 0 | 9 | 22 | 24 | | | * | | * | | □ | | |
| 7 | 7 | 42 | 4 | 20 | 10 | 53 | 1 | 13 | 21 | 55 | | | | Δ | | □ | | □ | |
| 8 | 7 | 40 | 4 | 31 | 11 | 34 | 2 | 16 | 21 | 23 | ♀ ♉ ♈ | | | | □ | | * | | * |
| 9 | 7 | 38 | 4 | 42 | 12 | 14 | 3 | 19 | 20 | 49 | | | | | | * | | * | |
| 10 | 7 | 35 | 4 | 54 | 12 | 55 | 4 | 21 | 20 | 13 | ☉ ♂ ♉ | ♈ | | | Δ | | | | |
| 11 | 7 | 33 | 5 | 5 | 13 | 35 | 5 | 24 | 19 | 37 | ♀ ♂ ♈ | | | ♈ | | | | | ♈ |
| 12 | 7 | 31 | 5 | 16 | 14 | 16 | 6 | 27 | 19 | 1 | ☉ ♉ ♈ | | | | | | ♈ | | |
| 13 | 7 | 28 | 5 | 28 | 14 | 58 | 7 | 29 | 18 | 27 | ♀ ♉ ♈ | | | | | | | | |
| 14 | 7 | 26 | 5 | 39 | 15 | 37 | 8 | 30 | 17 | 54 | | | | | ♈ | ♈ | | ♈ | |
| 15 | 7 | 23 | 5 | 51 | 16 | 17 | 9 | 31 | 17 | 22 | | | * | Δ | | | | | * |
| 16 | 7 | 21 | 6 | 3 | 16 | 58 | 10 | 31 | 16 | 52 | | | | | | | | | |
| 17 | 7 | 18 | 6 | 15 | 17 | 38 | 11 | 32 | 16 | 25 | | | | □ | | | * | | □ |
| 18 | 7 | 15 | 6 | 27 | 18 | 18 | 12 | 33 | 16 | 2 | | | □ | | | | | | |
| 19 | 7 | 12 | 6 | 39 | 18 | 58 | 13 | 33 | 15 | 43 | | | | | Δ | * | | * | Δ |
| 20 | 7 | 9 | 6 | 51 | 19 | 38 | 14 | 32 | 15 | 27 | | | Δ | * | | | □ | | |
| 21 | 7 | 6 | 7 | 3 | 20 | 18 | 15 | 31 | 15 | 15 | ♈ ♉ ♈ | | | | | □ | □ | | |
| 22 | 7 | 3 | 7 | 15 | 20 | 58 | 16 | 29 | 15 | 8 | ♀ * ♉ | | | | | | | Δ | □ |
| 23 | 7 | 0 | 7 | 27 | 21 | 38 | 17 | 27 | 15 | D 5 | | | | | | | | | |
| 24 | 6 | 57 | 7 | 39 | 22 | 18 | 18 | 25 | 15 | 6 | | | | | * | Δ | | | ♈ |
| 25 | 6 | 54 | 7 | 52 | 22 | 58 | 19 | 23 | 15 | 12 | | | | ♈ | | | | Δ | |
| 26 | 6 | 50 | 8 | 4 | 23 | 38 | 20 | 20 | 15 | 22 | | | | | | | | | |
| 27 | 6 | 47 | 8 | 17 | 24 | 18 | 21 | 17 | 15 | 37 | ♀ Δ ♈ | | | ♈ | | | | ♈ | |
| 28 | 6 | 43 | 8 | 29 | 24 | 58 | 22 | 13 | 15 | 56 | | | | | ♈ | ♈ | | | |
| 29 | 6 | 40 | 8 | 42 | 25 | 38 | 23 | 8 | 16 | 20 | | | * | | | | | | Δ |
| 30 | 6 | 36 | 8 | 54 | 26 | 18 | 24 | 8 | 16 | 48 | | | | | | | | ♈ | |
| 31 | 6 | 33 | 9 | 7 | 26 | 58 | 24 | 55 | 17 | 20 | | | Δ | | | | | | □ |

—



1. The first part of the document is a header section containing the title and author information.

2.

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 17 | 17 S 23 | 0 N 50 | 22 S 33 | 0 N 10 | 22 N 41 |
| 4 | 15 | 45 | 0 17 | 17 23 | 0 50 | 22 34 | 0 10 | 22 36 |
| 7 | 15 | 45 | 0 17 | 17 22 | 0 49 | 22 35 | 0 10 | 22 31 |
| 10 | 15 | 46 | 0 17 | 17 21 | 0 49 | 22 35 | 0 10 | 22 26 |
| 13 | 15 | 46 | 0 17 | 17 21 | 0 49 | 22 36 | 0 11 | 22 21 |
| 16 | 15 | 46 | 0 17 | 17 20 | 0 49 | 22 36 | 0 11 | 22 16 |
| 19 | 15 | 46 | 0 17 | 17 20 | 0 48 | 22 37 | 0 12 | 22 10 |
| 22 | 15 | 46 | 0 17 | 17 19 | 0 48 | 22 37 | 0 12 | 22 5 |
| 25 | 15 | 47 | 0 17 | 17 19 | 0 47 | 22 38 | 0 12 | 21 59 |
| 28 | 15 | 47 | 0 17 | 17 19 | 0 47 | 22 39 | 0 12 | 21 54 |
| 31 | 15 | 47 | 0 17 | 17 19 | 0 47 | 22 40 | 0 13 | 21 46 |

| D
M | D
W | Siderea ^l
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------------------|-----------------------|-------------|---------------------|-----------|-------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 6 37 32 | 9 ⁵⁵ 28 42 | 23 N 8 | 5 ¹⁷ 3 | 2 S 56 | 0 S 41 | 19 ^m 40 |
| 2 | Th | 6 41 28 | 10 20 55 | 23 3 | 19 14 | 3 53 | 3 N 56 | 19 ^R 39 |
| 3 | F | 6 45 25 | 11 18 7 | 22 58 | 3 ⁸ 27 | 4 35 | 8 21 | 19 38 |
| 4 | S | 6 49 22 | 12 15 20 | 22 54 | 17 40 | 5 12 | 12 18 | 19 37 |
| 5 | S | 6 53 18 | 13 12 33 | 22 48 | 1 ¹¹ 50 | 5 8 | 15 31 | 19 36 |
| 6 | M | 6 57 15 | 14 9 47 | 22 42 | 15 53 | 4 56 | 17 48 | 19 35 |
| 7 | Tu | 7 1 11 | 15 7 12 | 22 36 | 29 44 | 4 27 | 19 0 | 19 34 |
| 8 | W | 7 5 8 | 16 4 15 | 22 29 | 13 ⁵⁵ 21 | 3 44 | 19 5 | 19 33 |
| 9 | Th | 7 9 5 | 17 1 29 | 22 22 | 26 40 | 2 49 | 18 5 | 19 32 |
| 10 | F | 7 13 1 | 17 58 44 | 22 15 | 9 ² 40 | 1 46 | 16 9 | 19 30 |
| 11 | S | 7 16 57 | 18 55 59 | 22 7 | 22 21 | 0 39 | 13 28 | 19 29 |
| 12 | S | 7 20 54 | 19 53 14 | 21 59 | 4 ^m 45 | 0 N 29 | 10 13 | 19 28 |
| 13 | M | 7 24 51 | 20 50 29 | 21 51 | 16 55 | 1 33 | 6 36 | 19 27 |
| 14 | Tu | 7 28 47 | 21 47 44 | 21 42 | 28 53 | 2 33 | 2 47 | 19 26 |
| 15 | W | 7 32 44 | 22 44 59 | 21 32 | 10 ⁴⁵ | 3 26 | 1 S 6 | 19 25 |
| 16 | Th | 7 36 40 | 23 42 14 | 21 23 | 22 36 | 4 10 | 4 56 | 19 25 |
| 17 | F | 7 40 37 | 24 39 30 | 21 13 | 4 ^m 31 | 4 43 | 8 35 | 19 24 |
| 18 | S | 7 44 33 | 25 36 46 | 21 2 | 16 33 | 5 4 | 11 57 | 19 24 |
| 19 | S | 7 48 30 | 26 34 1 | 20 52 | 28 50 | 5 12 | 14 50 | 19 24 |
| 20 | M | 7 52 26 | 27 31 17 | 20 40 | 11 ¹ 22 | 5 6 | 17 7 | 19 23 |
| 21 | Tu | 7 56 23 | 28 28 34 | 20 29 | 24 13 | 4 44 | 18 37 | 19 23 |
| 22 | W | 8 0 20 | 29 25 51 | 20 17 | 7 ¹⁷ 24 | 4 6 | 19 9 | 19 23 |
| 23 | Th | 8 4 16 | 0 ² 23 9 | 20 5 | 20 54 | 3 14 | 18 38 | 19 23 |
| 24 | F | 8 8 13 | 1 20 27 | 19 53 | 4 ^m 43 | 2 10 | 17 0 | 19 22 |
| 25 | S | 8 12 9 | 2 17 46 | 19 40 | 18 45 | 0 57 | 14 19 | 19 22 |
| 26 | S | 8 16 6 | 3 15 5 | 19 27 | 2 ^m 59 | 0 S 21 | 10 45 | 19 22 |
| 27 | M | 8 20 2 | 4 12 26 | 19 13 | 17 19 | 1 39 | 6 32 | 19 22 |
| 28 | Tu | 8 23 59 | 5 9 46 | 19 0 | 1 ¹⁷ 41 | 2 50 | 1 56 | 19 D 22 |
| 29 | W | 8 27 55 | 6 7 19 | 18 46 | 16 2 | 3 50 | 2 N 46 | 19 22 |
| 30 | Th | 8 31 52 | 7 4 34 | 18 31 | 0 ⁸ 18 | 4 36 | 7 16 | 19 22 |
| 31 | F | 8 35 49 | 8 1 59 | 18 16 | 14 27 | 5 5 | 11 20 | 19 22 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 2 | 23 N 22 | 0 S 29 | 15 N 39 | 0 N 36 | 24 N 8 | 1 W 31 |
| 4 | 1 2 | 23 8 | 1 4 | 15 0 | 1 4 | 24 14 | 1 21 |
| 7 | 1 3 | 22 50 | 1 37 | 14 8 | 1 24 | 24 1 | 1 12 |
| 10 | 1 3 | 22 32 | 2 17 | 13 35 | 1 40 | 23 23 | 1 2 |
| 13 | 1 4 | 22 11 | 2 54 | 12 50 | 1 48 | 23 24 | 0 58 |
| 16 | 1 4 | 22 0 | 3 36 | 12 28 | 1 49 | 21 6 | 0 43 |
| 19 | 1 5 | 21 47 | 4 17 | 11 51 | 1 45 | 19 34 | 0 34 |
| 22 | 1 6 | 21 28 | 4 56 | 11 40 | 1 35 | 17 50 | 0 24 |
| 25 | 1 6 | 21 9 | 5 38 | 11 17 | 1 21 | 16 0 | 0 15 |
| 28 | 1 6 | 20 41 | 6 8 | 11 12 | 1 3 | 14 5 | 0 5 |
| 31 | 1 6 | 20 2 | 6 40 | 11 10 | 0 41 | 12 7 | 29 Q 56 |

[illegible]

AUGUST XXXI DAYS.

D
M

—

1
2
3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

3

4

5

6

7

8

9

10

11

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 7 | 19 N 33 | 6 S 54 | 11 N 9 | 0 N 34 | 11 N 27 | 29 Ω 53 |
| 4 | 1 7 | 19 8 | 7 26 | 11 15 | 0 9 | 9 28 | 29 43 |
| 7 | 1 8 | 18 32 | 7 32 | 11 27 | 0 S 18 | 7 30 | 29 34 |
| 10 | 1 8 | 17 59 | 7 36 | 11 40 | 0 47 | 5 35 | 29 24 |
| 13 | 1 9 | 17 27 | 7 41 | 11 59 | 1 17 | 3 45 | 29 15 |
| 16 | 1 9 | 16 52 | 7 36 | 12 16 | 1 48 | 2 2 | 29 5 |
| 19 | 1 9 | 16 18 | 7 25 | 12 36 | 2 19 | 0 27 | 28 56 |
| 22 | 1 9 | 15 42 | 7 10 | 12 52 | 2 49 | 0 S 56 | 28 46 |
| 25 | 1 10 | 15 5 | 6 51 | 13 13 | 3 17 | 2 5 | 28 37 |
| 28 | 1 10 | 14 25 | 6 26 | 13 26 | 3 43 | 2 56 | 28 27 |
| 31 | 1 10 | 13 43 | 6 6 | 13 40 | 4 3 | 3 24 | 28 18 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|---------|--------|--------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 2 w 21 | 22 Ω 50 | 7 Ω 18 | 9 Ω 45 | 1 w 35 | ♋ Δ h | | | | * | | □ |
| 2 | 2 R 18 | 23 3 | 7 56 | 9 R 7 | 8 6 | ☉ ♂ ♀ | * | | | | * | * |
| 3 | 2 15 | 23 16 | 8 35 | 8 29 | 4 34 | ♀ ♂ ♂ | | | ♂ | | | * |
| 4 | 2 12 | 23 29 | 9 13 | 7 52 | 5 59 | | | | | | | |
| 5 | 2 9 | 23 42 | 9 51 | 7 16 | 7 23 | | | Δ | | ♂ | | |
| 6 | 2 6 | 23 55 | 10 30 | 6 41 | 8 46 | | | ♂ | □ | | ♂ | ♂ |
| 7 | 2 4 | 24 8 | 11 8 | 6 8 | 10 7 | | | | | Δ | | |
| 8 | 2 1 | 24 21 | 11 46 | 5 36 | 11 26 | | | | | | | ♂ |
| 9 | 1 59 | 24 34 | 12 25 | 5 5 | 12 43 | | | * | | * | | |
| 10 | 1 56 | 24 47 | 13 3 | 4 35 | 13 58 | | | | * | * | | |
| 11 | 1 54 | 25 0 | 13 41 | 4 6 | 15 11 | | | | □ | | * | * |
| 12 | 1 52 | 25 13 | 14 20 | 3 38 | 16 22 | ☉ □ ♈ | * | | | * | □ | |
| 13 | 1 50 | 25 26 | 14 58 | 3 12 | 17 31 | | | | * | □ | □ | |
| 14 | 1 48 | 25 39 | 15 37 | 2 49 | 18 38 | | | | | □ | | |
| 15 | 1 46 | 25 51 | 16 15 | 2 28 | 19 42 | ♀ * ♈ | □ | ♂ | | Δ | | * |
| 16 | 1 44 | 26 4 | 16 53 | 2 10 | 20 43 | | | Δ | | | Δ | □ |
| 17 | 1 42 | 26 16 | 17 32 | 1 54 | 21 41 | | | | | | Δ | |
| 18 | 1 40 | 26 29 | 18 10 | 1 46 | 22 37 | | | | ♂ | | | |
| 19 | 1 39 | 26 41 | 18 48 | 1 30 | 23 31 | | | * | | | | |
| 20 | 1 37 | 26 54 | 19 27 | 1 21 | 24 22 | ♂ □ ♈ | | | | ♂ | ♂ | Δ |
| 21 | 1 36 | 27 7 | 20 5 | 1 15 | 25 9 | | | | □ | | | |
| 22 | 1 34 | 27 19 | 20 43 | 1 11 | 25 52 | | | ♂ | | * | ♂ | |
| 23 | 1 33 | 27 32 | 21 21 | 1 D 10 | 26 32 | | | | Δ | | | |
| 24 | 1 32 | 27 44 | 21 59 | 1 12 | 27 8 | ☉ Δ h | | | | □ | Δ | ♂ |
| 25 | 1 31 | 27 57 | 22 37 | 1 16 | 27 40 | | | | | | | |
| 26 | 1 30 | 28 9 | 23 16 | 1 22 | 28 8 | ♀ * ♈ | | | | Δ | □ | Δ |
| 27 | 1 29 | 28 21 | 23 54 | 1 30 | 28 31 | | | Δ | | | | |
| 28 | 1 28 | 28 33 | 24 32 | 1 40 | 28 45 | | | | ♂ | | * | □ |
| 29 | 1 27 | 28 44 | 25 10 | 1 52 | 29 2 | | | □ | | | | Δ |
| 30 | 1 26 | 28 56 | 25 48 | 2 6 | 29 10 | | | | | | * | |
| 31 | 1 25 | 29 8 | 26 26 | 2 21 | 29 R 11 | ♀ * ♈ | * | | ♂ | | | □ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jup |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° |
| 1 | 15 | 54 | 0 N 16 | 17 S 28 | 0 N 41 | 22 S 46 | 0 N 16 |
| 4 | 15 | 54 | 0 16 | 17 30 | 0 41 | 22 46 | 0 16 |
| 7 | 15 | 55 | 0 15 | 17 32 | 0 41 | 22 47 | 0 17 |
| 10 | 15 | 56 | 0 15 | 17 34 | 0 41 | 22 47 | 0 17 |
| 13 | 15 | 57 | 0 15 | 17 36 | 0 40 | 22 47 | 0 18 |
| 16 | 15 | 57 | 0 15 | 17 38 | 0 40 | 22 47 | 0 18 |
| 19 | 15 | 58 | 0 15 | 17 40 | 0 39 | 22 48 | 0 19 |
| 22 | 15 | 59 | 0 15 | 17 41 | 0 39 | 22 48 | 0 19 |
| 25 | 16 | 0 | 0 15 | 17 43 | 0 38 | 22 49 | 0 20 |
| 28 | 16 | 0 | 0 15 | 17 45 | 0 38 | 22 49 | 0 20 |

| D
M | D
W | Sidereal
Time. | ☉ | | ☉
Declin | ☽ | | ☽
Declin |
|--------|--------|-------------------|--------|----|-------------|----------|--------|-------------|
| | | | Long. | | | Long. | Lat. | |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Tu | 10 41 58 | 8 m 49 | 51 | 8 N 16 | 19 55 14 | 28 23 | 18 N 43 |
| 2 | W | 10 45 55 | 9 48 | 1 | 7 55 | 2 2 4 | 2 24 | 17 23 |
| 3 | Th | 10 49 51 | 10 46 | 13 | 7 32 | 14 40 | 1 19 | 15 11 |
| 4 | F | 10 53 48 | 11 44 | 27 | 7 10 | 27 4 | 0 11 | 12 20 |
| 5 | S | 10 57 44 | 12 42 | 42 | 6 48 | 9 m 17 | 0 N 56 | 8 58 |
| 6 | S | 11 1 41 | 13 41 | 0 | 6 25 | 21 22 | 2 0 | 5 16 |
| 7 | M | 11 5 38 | 14 39 | 19 | 6 3 | 3 20 | 2 58 | 1 24 |
| 8 | Tu | 11 9 34 | 15 37 | 40 | 5 40 | 15 13 | 3 48 | 28 29 |
| 9 | W | 11 13 31 | 16 36 | 8 | 5 18 | 27 3 | 4 28 | 6 16 |
| 10 | Th | 11 17 27 | 17 34 | 27 | 4 55 | 8 m 53 | 4 56 | 9 47 |
| 11 | F | 11 21 24 | 18 32 | 53 | 4 32 | 20 46 | 5 12 | 12 57 |
| 12 | S | 11 25 20 | 19 31 | 21 | 4 9 | 2 46 | 5 14 | 15 35 |
| 13 | S | 11 29 17 | 20 29 | 49 | 3 46 | 14 58 | 5 3 | 17 36 |
| 14 | M | 11 33 13 | 21 28 | 20 | 3 23 | 27 25 | 4 37 | 18 49 |
| 15 | Tu | 11 37 10 | 22 26 | 52 | 3 0 | 10 w 12 | 3 57 | 19 8 |
| 16 | W | 11 41 7 | 23 25 | 26 | 2 37 | 28 22 | 3 8 | 18 26 |
| 17 | Th | 11 45 3 | 24 24 | 2 | 2 14 | 6 m 59 | 1 58 | 16 39 |
| 18 | F | 11 49 0 | 25 22 | 39 | 1 50 | 21 8 | 0 43 | 13 49 |
| 19 | S | 11 52 56 | 26 21 | 18 | 1 27 | 5 x 33 | 08 37 | 10 3 |
| 20 | S | 11 56 53 | 27 19 | 59 | 1 4 | 20 23 | 1 55 | 5 35 |
| 21 | M | 12 0 49 | 28 18 | 42 | 0 40 | 5 r 29 | 2 7 | 0 41 |
| 22 | Tu | 12 4 46 | 29 17 | 27 | 0 17 | 20 39 | 4 6 | 4 N 16 |
| 23 | W | 12 8 42 | 0 16 | 14 | 08 6 | 5 44 | 4 48 | 8 55 |
| 24 | Th | 12 12 39 | 1 15 | 4 | 0 30 | 20 36 | 5 9 | 12 57 |
| 25 | F | 12 16 36 | 2 13 | 55 | 0 53 | 5 7 | 5 10 | 16 5 |
| 26 | S | 12 20 32 | 3 12 | 48 | 1 17 | 19 13 | 4 52 | 18 10 |
| 27 | S | 12 24 29 | 4 11 | 45 | 1 40 | 2 53 | 4 18 | 19 8 |
| 28 | M | 12 28 25 | 5 10 | 43 | 2 4 | 16 9 | 3 31 | 19 0 |
| 29 | Tu | 12 32 22 | 6 9 | 44 | 2 27 | 29 8 | 2 34 | 17 51 |
| 30 | W | 12 36 18 | 7 8 | 47 | 2 50 | 11 239 | 1 31 | 15 51 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , |
| 1 | 1 N 10 | 13 N 36 | 5 S 59 | 13 N 45 | 4 S 8 | 3 S 27 | 28 Ω 14 |
| 4 | 1 10 | 12 56 | 5 35 | 13 54 | 4 18 | 3 15 | 28 4 |
| 7 | 1 10 | 12 16 | 5 10 | 14 0 | 4 14 | 2 29 | 27 55 |
| 10 | 1 10 | 11 36 | 4 45 | 14 3 | 3 54 | 1 9 | 27 45 |
| 13 | 1 10 | 10 53 | 4 20 | 14 0 | 3 17 | 0 N 38 | 27 36 |
| 16 | 1 10 | 10 7 | 3 54 | 13 54 | 2 26 | 2 34 | 27 26 |
| 19 | 1 10 | 9 29 | 3 30 | 13 43 | 1 27 | 4 19 | 27 17 |
| 22 | 1 10 | 8 45 | 3 7 | 13 27 | 0 28 | 5 34 | 27 7 |
| 25 | 1 10 | 8 2 | 2 43 | 13 8 | 0 N 24 | 6 8 | 26 58 |
| 28 | 1 10 | 7 17 | 2 23 | 12 44 | 1 4 | 5 59 | 26 48 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|--------|---------|--------|--------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ | ♀ |
| | ° , | ° , | ° , | ° , | ° , | | | | | | | | |
| 1 | 1 w 25 | 29 Ω 19 | 27 Ω 4 | 2 Ω 38 | 29 w 6 | | | Δ | | | ♂ | | |
| 2 | 1 R 25 | 29 31 | 27 43 | 2 58 | 28 R 59 | | | | | ♂ | | | * |
| 3 | 1 25 | 29 42 | 28 21 | 3 19 | 28 42 | | | □ | | | ♂ | | |
| 4 | 1 D 25 | 29 54 | 28 59 | 3 43 | 28 16 | | ♂ | | Δ | | ♂ | | |
| 5 | 1 25 | 0 Ω 5 | 29 37 | 4 8 | 27 45 | | | | | | | | |
| 6 | 1 25 | 0 17 | 0 w 15 | 4 35 | 27 9 | | | * | | | | | ♂ |
| 7 | 1 25 | 0 28 | 0 53 | 5 4 | 26 29 | | | | □ | * | | * | |
| 8 | 1 26 | 0 40 | 1 32 | 5 34 | 25 43 | ♂ Δ h | | | | * | | * | |
| 9 | 1 26 | 0 51 | 2 10 | 6 6 | 24 51 | | | | * | □ | * | | |
| 10 | 1 27 | 1 2 | 2 48 | 6 39 | 23 52 | | | | | | | □ | |
| 11 | 1 27 | 1 13 | 3 26 | 7 13 | 22 51 | | * | ♂ | | | | | * |
| 12 | 1 28 | 1 24 | 4 4 | 7 48 | 21 49 | ☉ ♂ ♀ | ☉ | | | Δ | □ | Δ | |
| 13 | 1 28 | 1 35 | 4 42 | 8 24 | 20 48 | ☉ * ♀ | ☉ | | | | | | □ |
| 14 | 1 29 | 1 46 | 5 20 | 9 2 | 19 48 | ♀ * ♀ | | | ♂ | | | | |
| 15 | 1 30 | 1 56 | 5 58 | 9 41 | 18 49 | | | | | | Δ | | |
| 16 | 1 31 | 2 7 | 6 36 | 10 21 | 17 51 | | Δ | * | | | | | Δ |
| 17 | 1 32 | 2 17 | 7 14 | 11 3 | 16 58 | | | | | | ♂ | ♂ | |
| 18 | 1 33 | 2 28 | 7 52 | 11 45 | 16 14 | | | □ | | | | | |
| 19 | 1 34 | 2 38 | 8 30 | 12 28 | 15 41 | | | | * | | ♂ | | |
| 20 | 1 36 | 2 48 | 9 8 | 13 12 | 15 16 | | ♂ | Δ | | | | ♂ | |
| 21 | 1 37 | 2 58 | 9 46 | 13 57 | 14 58 | | | | | □ | Δ | | |
| 22 | 1 39 | 3 8 | 10 24 | 14 43 | 14 46 | | | | | | | Δ | |
| 23 | 1 40 | 3 18 | 11 2 | 15 30 | 14 D 45 | | | | | Δ | □ | Δ | |
| 24 | 1 42 | 3 28 | 11 40 | 16 18 | 14 57 | ☉ □ h | | ♂ | | | | □ | Δ |
| 25 | 1 44 | 3 38 | 12 18 | 17 7 | 15 21 | | Δ | | | * | | | |
| 26 | 1 46 | 3 47 | 12 57 | 17 55 | 15 53 | | | | | | | □ | * |
| 27 | 1 48 | 3 57 | 13 35 | 18 45 | 16 33 | ☉ * ♄ | ☉ | | ♂ | | | * | ♂ |
| 28 | 1 51 | 4 6 | 14 13 | 19 37 | 17 21 | | | | | | | | |
| 29 | 1 53 | 4 16 | 14 51 | 20 30 | 18 18 | | | Δ | | ♂ | | | |
| 30 | 1 55 | 4 25 | 15 29 | 21 24 | 19 28 | ♀ □ ♀ | * | | | | | | |

NOVEMBER XXX DAYS.

| D
M | Sun's
Meridia | | Herschel. | | Saturn. | | Jr |
|--------|------------------|----|-----------|---------|---------|---------|--------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 16 | 10 | 0 N 15 | 18 S 15 | 0 N 33 | 22 S 51 | 0 N 26 |
| 4 | 16 | 10 | 0 15 | 18 19 | 0 33 | 22 51 | 0 26 |
| 7 | 16 | 11 | 0 14 | 18 23 | 0 33 | 22 51 | 0 27 |
| 10 | 16 | 12 | 0 14 | 18 25 | 0 33 | 22 51 | 0 27 |
| 13 | 16 | 12 | 0 14 | 18 27 | 0 32 | 22 50 | 0 28 |
| 16 | 16 | 13 | 0 14 | 18 30 | 0 32 | 22 50 | 0 28 |
| 19 | 16 | 14 | 0 14 | 18 32 | 0 31 | 22 49 | 0 29 |
| 22 | 16 | 14 | 0 14 | 18 34 | 0 31 | 22 49 | 0 29 |
| 25 | 16 | 15 | 0 14 | 18 37 | 0 31 | 22 48 | 0 30 |
| 28 | 16 | 16 | 0 14 | 18 40 | 0 31 | 22 47 | 0 31 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ☽
Long. | | ☽
Lat. | | ☽
Declin. | |
|--------|--------|-------------------|----|----|------------|---------|--------------|------|------------|------|-----------|------|--------------|------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 14 | 42 | 23 | 8 | m 56 16 | 14 | S 29 | 9 | 0 | 8 | N 25 | 0 | S 2 |
| 2 | M | 14 | 46 | 25 | 9 | 56 26 | 14 | 48 | 20 | 49 | 4 | 6 | 4 | 2 |
| 3 | Tu | 14 | 50 | 21 | 10 | 56 39 | 15 | 7 | 2 | m 40 | 4 | 36 | 8 | |
| 4 | W | 14 | 54 | 18 | 11 | 56 53 | 15 | 26 | 14 | 34 | 4 | 54 | 11 | 8 |
| 5 | Th | 14 | 58 | 14 | 12 | 57 9 | 15 | 44 | 26 | 32 | 5 | 0 | 14 | 8 |
| 6 | F | 15 | 2 | 11 | 13 | 57 27 | 16 | 3 | 8 | f 35 | 4 | 52 | 16 | 5 |
| 7 | S | 15 | 6 | 7 | 14 | 57 46 | 16 | 20 | 20 | 45 | 4 | 31 | 18 | 3 |
| 8 | S | 15 | 10 | 4 | 15 | 58 7 | 16 | 38 | 3 | w 3 | 3 | 57 | 19 | 2 |
| 9 | M | 15 | 14 | 0 | 16 | 58 30 | 16 | 55 | 15 | 31 | 3 | 11 | 19 | 2 |
| 10 | Tu | 15 | 17 | 57 | 17 | 58 54 | 17 | 12 | 28 | 13 | 2 | 15 | 18 | 1 |
| 11 | W | 15 | 21 | 54 | 18 | 59 19 | 17 | 29 | 11 | m 12 | 1 | 11 | 16 | 1 |
| 12 | Th | 15 | 25 | 50 | 19 | 59 46 | 17 | 45 | 24 | 32 | 0 | 1 | 13 | 2 |
| 13 | F | 15 | 29 | 47 | 21 | 0 14 | 18 | 1 | 8 | x 14 | 1 | 8 | 11 | 9 |
| 14 | S | 15 | 33 | 40 | 22 | 0 44 | 18 | 17 | 22 | 22 | 2 | 20 | 5 | 1 |
| 15 | S | 15 | 37 | 40 | 23 | 1 14 | 18 | 33 | 6 | r 55 | 3 | 23 | 0 | 2 |
| 16 | M | 15 | 41 | 36 | 24 | 1 47 | 18 | 48 | 21 | 50 | 4 | 13 | 4 | N 3 |
| 17 | Tu | 15 | 45 | 33 | 25 | 2 20 | 19 | 3 | 6 | 58 | 4 | 47 | 9 | 2 |
| 18 | W | 15 | 49 | 29 | 26 | 2 55 | 19 | 17 | 22 | 12 | 5 | 0 | 18 | 3 |
| 19 | Th | 15 | 53 | 26 | 27 | 3 31 | 19 | 31 | 7 | 11 | 4 | 52 | 16 | 4 |
| 20 | F | 15 | 57 | 23 | 28 | 4 9 | 19 | 45 | 22 | 12 | 4 | 26 | 16 | 5 |
| 21 | S | 16 | 1 | 19 | 29 | 4 49 | 19 | 58 | 6 | 39 | 3 | 41 | 19 | 8 |
| 22 | S | 16 | 5 | 16 | 0 | f 5 30 | 20 | 11 | 20 | 37 | 2 | 44 | 19 | 10 |
| 23 | M | 16 | 9 | 13 | 1 | 6 13 | 20 | 24 | 4 | 2 | 1 | 41 | 17 | 8 |
| 24 | Tu | 16 | 13 | 9 | 2 | 6 57 | 20 | 36 | 17 | 4 | 0 | 34 | 15 | 11 |
| 25 | W | 16 | 17 | 5 | 3 | 7 43 | 20 | 48 | 29 | 39 | 0 | N 33 | 13 | 7 |
| 26 | Th | 16 | 21 | 2 | 4 | 8 30 | 21 | 0 | 11 | w 53 | 1 | 36 | 8 | 8 |
| 27 | F | 16 | 24 | 58 | 5 | 9 19 | 21 | 11 | 23 | 58 | 2 | 34 | 4 | 45 |
| 28 | S | 16 | 28 | 55 | 6 | 10 10 | 21 | 21 | 5 | 52 | 3 | 24 | 0 | 45 |
| 29 | S | 16 | 32 | 52 | 7 | 11 2 | 21 | 32 | 17 | 41 | 4 | 6 | 8 | S 10 |
| 30 | M | 16 | 36 | 48 | 8 | 11 56 | 21 | 42 | 29 | 31 | 4 | 36 | 7 | 0 |

TOTAL 4

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | Herschel. | | Saturn. | | Jup. |
|--------|-------------------|-----------|---------|---------|---------|--------|
| | | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 16 15 | 0 N 14 | 18 54 3 | 0 N 31 | 22 54 6 | 0 N 32 |
| 4 | 16 15 | 0 14 | 18 46 | 0 31 | 22 46 | 0 32 |
| 7 | 16 16 | 0 14 | 18 49 | 0 30 | 22 45 | 0 33 |
| 10 | 16 16 | 0 14 | 18 52 | 0 30 | 22 44 | 0 33 |
| 13 | 16 16 | 0 14 | 18 54 | 0 30 | 22 43 | 0 34 |
| 16 | 16 16 | 0 14 | 18 56 | 0 30 | 22 41 | 0 34 |
| 19 | 16 17 | 0 14 | 18 58 | 0 29 | 22 40 | 0 35 |
| 22 | 16 17 | 0 14 | 19 0 | 0 29 | 22 39 | 0 36 |
| 25 | 16 17 | 0 14 | 19 3 | 0 29 | 22 38 | 0 36 |
| 28 | 16 17 | 0 14 | 19 5 | 0 29 | 22 37 | 0 37 |
| 31 | 16 17 | 0 14 | 19 7 | 0 28 | 22 36 | 0 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|
| | | H. M. S. | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | Tu | 16 40 45 | 9 12 51 | 21 55 1 | 11 24 | 4 N 55 | 10 10 16 |
| 2 | W | 16 44 41 | 10 18 47 | 22 0 23 | 23 | 5 1 13 | 10 47 |
| 3 | Th | 16 48 38 | 11 14 45 | 22 9 5 | 30 | 4 53 16 | 26 |
| 4 | F | 16 52 34 | 12 15 43 | 22 17 17 | 44 | 4 32 18 | 23 |
| 5 | S | 16 56 31 | 13 16 43 | 22 25 0 | 58 | 3 58 19 | 30 |
| 6 | S | 17 0 27 | 14 17 43 | 22 32 12 | 40 | 3 11 19 | 40 |
| 7 | M | 17 4 24 | 15 18 44 | 22 39 25 | 28 | 2 15 18 | 52 |
| 8 | Tu | 17 8 21 | 16 19 46 | 22 45 8 | 17 | 1 11 17 | 4 |
| 9 | W | 17 12 17 | 17 20 48 | 22 51 21 | 24 | 0 2 14 | 21 |
| 10 | Th | 17 16 14 | 18 21 51 | 22 57 4 | 45 | 1 8 10 | 51 |
| 11 | F | 17 20 10 | 19 22 55 | 23 3 18 | 24 | 2 17 6 | 42 |
| 12 | S | 17 24 7 | 20 23 59 | 23 7 2 | 21 | 3 19 2 | 6 |
| 13 | S | 17 28 3 | 21 25 3 | 23 11 16 | 37 | 4 10 2 | N 41 |
| 14 | M | 17 32 0 | 22 26 8 | 23 15 1 | 10 | 4 46 7 | 25 |
| 15 | Tu | 17 35 56 | 23 27 13 | 23 18 15 | 55 | 5 3 11 | 46 |
| 16 | W | 17 39 53 | 24 28 18 | 23 21 0 | 47 | 6 1 15 | 26 |
| 17 | Th | 17 43 50 | 25 29 24 | 23 23 16 | 36 | 4 38 18 | 5 |
| 18 | F | 17 47 46 | 26 30 31 | 23 25 0 | 14 | 3 57 19 | 31 |
| 19 | S | 17 51 43 | 27 31 38 | 23 26 14 | 35 | 3 3 19 | 39 |
| 20 | S | 17 55 39 | 28 32 45 | 23 27 26 | 31 | 1 57 18 | 34 |
| 21 | M | 17 59 36 | 29 33 53 | 23 28 12 | 2 | 0 47 16 | 27 |
| 22 | Tu | 18 3 32 | 0 34 55 | 23 27 25 | 6 | 0 N 23 | 18 |
| 23 | W | 18 7 29 | 1 36 11 | 23 27 7 | 46 | 1 30 10 | 3 |
| 24 | Th | 18 11 25 | 2 37 21 | 23 26 20 | 7 | 2 31 6 | 14 |
| 25 | F | 18 15 22 | 3 38 31 | 23 25 2 | 13 | 3 25 2 | 15 |
| 26 | S | 18 19 19 | 4 39 42 | 23 23 14 | 9 | 4 8 18 | 46 |
| 27 | S | 18 23 15 | 5 40 53 | 23 20 26 | 0 | 4 41 5 | 42 |
| 28 | M | 18 27 12 | 6 42 5 | 23 17 7 | 52 | 5 1 9 | 24 |
| 29 | Tu | 18 31 8 | 7 43 17 | 23 14 19 | 47 | 5 9 12 | 45 |
| 30 | W | 18 35 5 | 8 44 29 | 23 10 1 | 51 | 5 3 15 | 36 |
| 31 | Th | 18 39 2 | 9 45 41 | 23 6 14 | 5 | 4 43 17 | 49 |

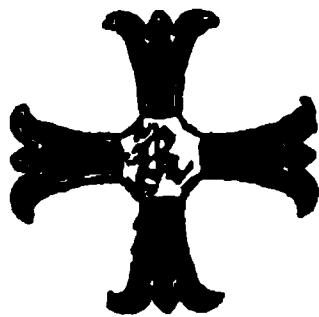
RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE

PLANETS' PLACES

For 1813.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

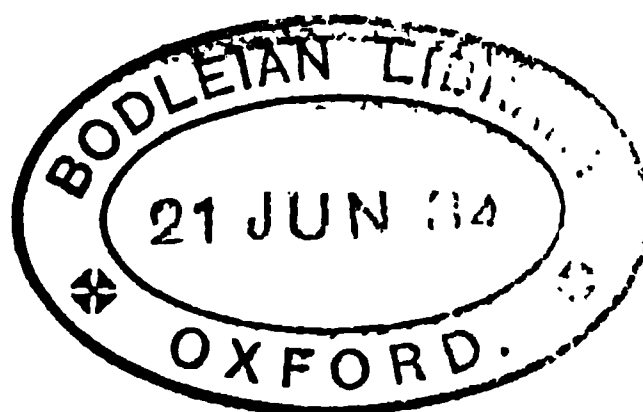
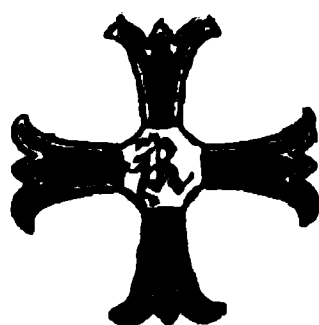
(Alm.) : : : : :

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1813.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR,
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 52 | 15 S 19 | 1 N 41 | 19 S 39 | 3 N 7 | 20 S 18 | 21 Ω 47 |
| 4 | 0 50 | 15 56 | 1 34 | 20 19 | 3 16 | 20 11 | 21 37 |
| 7 | 0 49 | 16 26 | 1 28 | 20 58 | 3 8 | 20 19 | 21 28 |
| 10 | 0 48 | 16 57 | 1 21 | 21 27 | 2 48 | 20 39 | 21 18 |
| 13 | 0 47 | 17 29 | 1 13 | 21 55 | 2 22 | 21 6 | 21 9 |
| 16 | 0 46 | 17 59 | 1 5 | 22 12 | 1 53 | 21 34 | 20 59 |
| 19 | 0 44 | 18 28 | 0 57 | 22 30 | 1 23 | 22 0 | 20 50 |
| 22 | 0 42 | 18 55 | 0 49 | 22 36 | 0 54 | 22 20 | 20 40 |
| 25 | 0 40 | 19 22 | 0 40 | 22 41 | 0 26 | 22 33 | 20 30 |
| 28 | 0 38 | 19 44 | 0 32 | 22 35 | 0 S 1 | 22 37 | 20 21 |
| 31 | 0 36 | 20 8 | 0 23 | 22 24 | 0 25 | 22 31 | 20 11 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|---------|--------|--------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 10 w 26 | 6 Ω 55 | 14 m 18 | 5 ↑ 55 | 3 w 14 | ☉ ☉ h | | | | | | | | ♈ |
| 2 | 10 33 | 6 ♀ 48 | 14 56 | 7 9 | 2 ♀ 6 | ☿ Δ ♈ | | ♈ | * | ♈ | | * | | |
| 3 | 10 41 | 6 41 15 | 34 8 | 22 1 | 8 | | | ♈ | * | | | | | |
| 4 | 10 48 | 6 34 16 | 11 9 | 36 0 | 22 | | | | | | ♈ | | * | |
| 5 | 10 55 | 6 27 16 | 49 10 | 49 29 | ↑ 46 | | | | | | | □ | | |
| 6 | 11 2 | 6 20 17 | 27 12 | 3 29 | 18 | | | * | □ | * | | | | * |
| 7 | 11 9 | 6 13 18 | 4 13 | 17 28 | 57 | | | * | | * | | Δ | □ | |
| 8 | 11 16 | 6 6 18 | 42 14 | 30 28 | D 46 | | | □ | Δ | | Δ | | | □ |
| 9 | 11 23 | 5 58 19 | 19 15 | 44 28 | 46 | | | | | □ | | | Δ | |
| 10 | 11 30 | 5 51 19 | 57 16 | 58 28 | 56 | ☉ * ♈ | | | | | | | | Δ |
| 11 | 11 37 | 5 43 20 | 34 18 | 12 29 | 13 | | | | | Δ | ♈ | | | |
| 12 | 11 44 | 5 36 21 | 12 19 | 26 29 | 36 | | | Δ | ♈ | | | * | ♈ | |
| 13 | 11 51 | 5 28 21 | 49 20 | 40 0 w | 4 | | | | | | | * | | ♈ |
| 14 | 11 58 | 5 21 22 | 27 21 | 54 0 | 39 | | | | | | ♈ | | | ♈ |
| 15 | 12 5 | 5 13 23 | 4 23 | 8 1 | 20 | | | | | ♈ | | | | |
| 16 | 12 12 | 5 5 23 | 42 24 | 22 2 | 6 | | | ♈ | Δ | | | | Δ | |
| 17 | 12 19 | 4 57 24 | 19 25 | 36 2 | 56 | ☉ * ♈ | | | | | ♈ | | | |
| 18 | 12 26 | 4 49 24 | 57 26 | 50 3 | 49 | | | | | □ | | | □ | |
| 19 | 12 33 | 4 41 25 | 34 28 | 5 4 | 45 | | | | □ | | | | Δ | Δ |
| 20 | 12 40 | 4 33 26 | 12 29 | 19 5 | 45 | | | | | Δ | | | | |
| 21 | 12 47 | 4 25 26 | 49 0 w | 33 6 | 48 | | | Δ | * | | | * | □ | |
| 22 | 12 54 | 4 17 27 | 26 1 | 47 7 | 53 | ♈ ☉ ♈ | | | | □ | * | | | □ |
| 23 | 13 1 | 4 9 28 | 4 3 | 1 9 | 0 | | | | | | | | | |
| 24 | 13 8 | 4 1 28 | 31 4 | 15 10 | 10 | ☉ ♈ ♈ | | □ | | | □ | | * | * |
| 25 | 13 14 | 3 53 29 | 18 5 | 30 11 | 22 | | | | | * | | | | * |
| 26 | 13 21 | 3 45 29 | 55 6 | 44 12 | 36 | | | | ♈ | | | | ♈ | |
| 27 | 13 28 | 3 37 0 | ↑ 33 7 | 58 13 | 51 | ☿ ☉ h | * | | ♈ | | Δ | | | |
| 28 | 13 35 | 3 29 1 | 10 9 | 12 15 | 7 | | | | | | | | | |
| 29 | 13 41 | 3 21 1 | 48 10 | 27 16 | 25 | | | | | | ♈ | | | ♈ |
| 30 | 13 48 | 3 13 2 | 25 11 | 41 17 | 44 | | | | | ♈ | | | | ♈ |
| 31 | 13 55 | 3 5 3 | 3 12 | 55 19 | 5 | ♈ Δ ♈ | | * | | ♈ | * | | | |

FEBRUARY XXVIII DAYS.

| II
M | Sun's
Semidia. | | Herschel. | | Saturn. | | |
|---------|-------------------|----|-----------|---------|---------|---------|-----|
| | | | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° |
| 1 | 16 | 15 | 0 N 14 | 19 S 23 | 0 N 26 | 22 S 17 | 0 N |
| 4 | 16 | 15 | 0 14 | 19 24 | 0 26 | 22 16 | 0 |
| 7 | 16 | 14 | 0 14 | 19 25 | 0 25 | 22 14 | 0 |
| 10 | 16 | 14 | 0 14 | 19 26 | 0 25 | 22 12 | 0 |
| 13 | 16 | 13 | 0 14 | 19 26 | 0 25 | 22 11 | 0 |
| 16 | 16 | 13 | 0 14 | 19 26 | 0 25 | 22 9 | 0 |
| 19 | 16 | 11 | 0 14 | 19 27 | 0 25 | 22 7 | 0 |
| 22 | 16 | 11 | 0 14 | 19 28 | 0 25 | 22 5 | 0 |
| 25 | 16 | 10 | 0 14 | 19 28 | 0 24 | 22 3 | 0 |
| 28 | 16 | 10 | 0 14 | 19 29 | 0 24 | 22 1 | 0 |

1813.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

5

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 36 | 20 S 19 | 0 N 19 | 22 S 23 | 0 S 33 | 22 S 27 | 20 Q 8 |
| 4 | 0 34 | 20 40 | 0 10 | 22 2 | 0 54 | 22 6 | 19 58 |
| 7 | 0 32 | 21 2 | 0 2 | 21 42 | 1 13 | 21 35 | 19 49 |
| 10 | 0 30 | 21 21 | 0 S 6 | 21 14 | 1 30 | 20 51 | 19 39 |
| 13 | 0 27 | 21 40 | 0 14 | 20 36 | 1 44 | 19 56 | 19 30 |
| 16 | 0 25 | 21 57 | 0 21 | 19 52 | 1 55 | 18 48 | 19 20 |
| 19 | 0 22 | 22 13 | 0 30 | 19 9 | 2 3 | 17 28 | 19 11 |
| 22 | 0 20 | 22 27 | 0 37 | 18 15 | 2 7 | 15 56 | 19 1 |
| 25 | 0 17 | 22 40 | 0 44 | 17 27 | 2 8 | 14 11 | 18 52 |
| 28 | 0 14 | 22 52 | 0 51 | 16 20 | 2 4 | 12 14 | 18 42 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|--------|--------------|-----------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | | ° | ' | ° | ' | ° | ' |
| 1 | 14 w 1 | 2 Q 58 | 3 f 40 | 14 w 10 | 20 w 27 | ♀ ♂ h | ♈ | | | | | |
| 2 | 14 8 | 2 R 50 | 4 17 15 | 24 21 50 | | | | ☐ | | | | |
| 3 | 14 14 | 2 42 | 4 54 16 | 38 23 14 | | | | | * | | ☐ | * |
| 4 | 14 20 | 2 35 | 5 31 17 | 53 24 39 | | | | Δ | | Δ | | * |
| 5 | 14 26 | 2 27 | 6 8 19 | 7 26 5 | | | * | | ☐ | | Δ | |
| 6 | 14 32 | 2 19 | 6 45 20 | 21 27 32 | ♀ * h | | | | | | ☐ | ☐ |
| 7 | 14 38 | 2 12 | 7 22 21 | 36 29 0 | | | | | Δ | ☐ | | |
| 8 | 14 45 | 2 4 | 7 59 22 | 50 0 m 29 | | | ☐ | ♂ | | | | Δ |
| 9 | 14 51 | 1 57 | 8 36 24 | 4 1 59 | ♀ ♂ ♄ | | | | | * | ♂ | Δ |
| 10 | 14 57 | 1 49 | 9 13 25 | 19 3 29 | | | Δ | | | | | |
| 11 | 15 3 | 1 42 | 9 50 26 | 33 5 0 | | | | | | | | |
| 12 | 15 9 | 1 35 | 10 27 27 | 47 6 33 | ♀ * h | | | | ♂ | | | |
| 13 | 15 15 | 1 28 | 11 3 29 | 2 8 7 | | | | Δ | | ♈ | | ♂ |
| 14 | 15 21 | 1 22 | 11 40 0 m 16 | 9 41 | | | | | | | Δ | ♂ |
| 15 | 15 27 | 1 15 | 12 17 1 | 81 11 16 | ♀ ♂ ♄ | | ♂ | ☐ | | | | |
| 16 | 15 33 | 1 9 | 12 53 2 | 45 12 52 | ☉ ☐ h | | | | Δ | | ☐ | |
| 17 | 15 39 | 1 2 | 13 30 4 | 0 14 29 | ♀ * ♂ | | * | | | | | |
| 18 | 15 45 | 0 56 | 14 7 5 | 14 16 7 | | | | | | * | | Δ |
| 19 | 15 51 | 0 50 | 14 43 6 | 29 17 45 | | | | | ☐ | | * | Δ |
| 20 | 15 57 | 0 44 | 15 20 7 | 43 19 25 | | | Δ | | | ☐ | | |
| 21 | 16 3 | 0 38 | 15 56 8 | 57 21 6 | | | | | * | | | ☐ |
| 22 | 16 8 | 0 33 | 16 33 10 | 12 22 48 | | | | ♈ | | | | ☐ |
| 23 | 16 14 | 0 27 | 17 9 11 | 26 24 31 | | | ☐ | | | Δ | | |
| 24 | 16 19 | 0 21 | 17 46 12 | 40 26 15 | | | | | | | ♈ | * |
| 25 | 16 24 | 0 16 | 18 22 13 | 55 27 59 | | | | | | | | * |
| 26 | 16 30 | 0 11 | 18 58 15 | 9 29 44 | | | * | | ♈ | | | |
| 27 | 16 35 | 0 6 | 19 34 16 | 24 1 x 31 | | | | * | | ♂ | | |
| 28 | 16 40 | 0 1 | 20 10 17 | 38 3 19 | | | | | | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jup |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 16 | 10 | 0 N 14 | 19 S 29 | 0 N 24 | 23 S 0 | 0 N 44 |
| 2 | 16 | 9 | 0 14 | 19 29 | 0 24 | 21 58 | 0 44 |
| 7 | 16 | 8 | 0 14 | 19 29 | 0 24 | 21 57 | 0 44 |
| 10 | 16 | 8 | 0 14 | 19 29 | 0 24 | 21 55 | 0 44 |
| 11 | 16 | 7 | 0 14 | 19 29 | 0 24 | 21 54 | 0 44 |
| 16 | 16 | 6 | 0 14 | 19 28 | 0 24 | 21 53 | 0 44 |
| 19 | 16 | 5 | 0 14 | 19 28 | 0 24 | 21 51 | 0 44 |
| 22 | 16 | 4 | 0 14 | 19 27 | 0 24 | 21 49 | 0 44 |
| 25 | 16 | 3 | 0 14 | 19 26 | 0 23 | 21 48 | 0 44 |
| 28 | 16 | 3 | 0 14 | 19 25 | 0 23 | 21 47 | 0 44 |
| 31 | 16 | 2 | 0 14 | 19 24 | 0 23 | 21 46 | 0 44 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ☽
Long. | | | ☽
Lat. | | | ☽
Declin | | |
|--------|--------|-------------------|----|----|------------|------|----|-------------|------|----|------------|---|------|-----------|------|---|-------------|---|---|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | M | 22 | 35 | 38 | 10 | 24 | 29 | 7 | 37 | 23 | 17 | 0 | 8 | 14 | 14 | 3 | 19 | | |
| 2 | Tu | 22 | 39 | 35 | 11 | 34 | 37 | 7 | 11 | 6 | 19 | 1 | 30 | 10 | 36 | | | | |
| 3 | W | 22 | 43 | 31 | 12 | 34 | 48 | 6 | 51 | 20 | 40 | 2 | 42 | 6 | 11 | | | | |
| 4 | Th | 22 | 47 | 28 | 13 | 34 | 48 | 6 | 28 | 5 | 15 | 3 | 45 | 1 | 21 | | | | |
| 5 | F | 22 | 51 | 24 | 14 | 34 | 50 | 6 | 5 | 19 | 56 | 4 | 33 | 3 | N 35 | | | | |
| 6 | S | 22 | 55 | 21 | 15 | 34 | 50 | 5 | 41 | 4 | 36 | 5 | 3 | 8 | 18 | | | | |
| 7 | S | 22 | 59 | 17 | 16 | 34 | 48 | 5 | 18 | 19 | 10 | 6 | 14 | 12 | 30 | | | | |
| 8 | M | 23 | 3 | 14 | 17 | 34 | 44 | 4 | 55 | 3 | 32 | 5 | 4 | 15 | 54 | | | | |
| 9 | Tu | 23 | 7 | 11 | 18 | 34 | 38 | 4 | 31 | 17 | 39 | 4 | 36 | 13 | 18 | | | | |
| 10 | W | 23 | 11 | 7 | 19 | 34 | 29 | 4 | 8 | 1 | 50 | 3 | 53 | 19 | 34 | | | | |
| 11 | Th | 23 | 15 | 4 | 20 | 34 | 18 | 3 | 44 | 15 | 4 | 2 | 57 | 19 | 41 | | | | |
| 12 | F | 23 | 19 | 0 | 21 | 34 | 4 | 3 | 21 | 28 | 23 | 1 | 53 | 18 | 40 | | | | |
| 13 | S | 23 | 23 | 57 | 22 | 33 | 48 | 2 | 57 | 11 | 27 | 0 | 43 | 16 | 40 | | | | |
| 14 | S | 23 | 26 | 53 | 23 | 33 | 30 | 2 | 34 | 24 | 19 | 0 | N 27 | 13 | 51 | | | | |
| 15 | M | 23 | 30 | 50 | 24 | 33 | 10 | 3 | 10 | 6 | 59 | 1 | 34 | 10 | 25 | | | | |
| 16 | Tu | 23 | 34 | 47 | 25 | 32 | 49 | 1 | 46 | 19 | 29 | 2 | 36 | 6 | 34 | | | | |
| 17 | W | 23 | 38 | 43 | 26 | 32 | 23 | 1 | 23 | 1 | 40 | 3 | 30 | 2 | 29 | | | | |
| 18 | Th | 23 | 42 | 39 | 27 | 31 | 57 | 0 | 59 | 13 | 59 | 4 | 13 | 1 | 33 | | | | |
| 19 | F | 23 | 46 | 36 | 28 | 31 | 29 | 0 | 35 | 26 | 2 | 4 | 45 | 5 | 33 | | | | |
| 20 | S | 23 | 50 | 33 | 29 | 30 | 59 | 0 | 12 | 7 | m 59 | 5 | 3 | 9 | 24 | | | | |
| 21 | S | 23 | 54 | 29 | 0 | r 30 | 27 | 0 | N 12 | 19 | 52 | 5 | 9 | 13 | 46 | | | | |
| 22 | M | 23 | 58 | 26 | 1 | 29 | 53 | 0 | 36 | 1 | 44 | 5 | 1 | 15 | 37 | | | | |
| 23 | Tu | 0 | 2 | 22 | 2 | 29 | 17 | 0 | 59 | 13 | 38 | 4 | 40 | 17 | 49 | | | | |
| 24 | W | 0 | 6 | 19 | 3 | 28 | 40 | 1 | 23 | 25 | 39 | 4 | 7 | 19 | 16 | | | | |
| 25 | Th | 0 | 10 | 15 | 4 | 28 | 0 | 1 | 47 | 7 | v 52 | 3 | 22 | 19 | 52 | | | | |
| 26 | F | 0 | 14 | 12 | 5 | 27 | 19 | 2 | 10 | 20 | 21 | 2 | 27 | 19 | 30 | | | | |
| 27 | S | 0 | 18 | 8 | 6 | 26 | 37 | 2 | 34 | 3 | m 10 | 1 | 23 | 18 | 7 | | | | |
| 28 | S | 0 | 22 | 5 | 7 | 25 | 52 | 2 | 57 | 16 | 25 | 0 | 12 | 15 | 44 | | | | |
| 29 | M | 0 | 26 | 2 | 8 | 25 | 6 | 3 | 20 | 0 | x 7 | 1 | 3 | 1 | 24 | | | | |
| 30 | Tu | 0 | 29 | 58 | 9 | 24 | 18 | 3 | 44 | 14 | 16 | 2 | 13 | 3 | 15 | | | | |
| 31 | W | 0 | 33 | 55 | 10 | 23 | 28 | 4 | 7 | 28 | 51 | 3 | 19 | 3 | 30 | | | | |

MARCH XXXI DAYS.

| D
M | Ma s. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 13 | 22 S 55 | 0 S 53 | 16 S 1 | 2 S 2 | 11 S 32 | 18 Ω 39 |
| 4 | 0 10 | 23 6 | 0 58 | 14 53 | 1 53 | 9 19 | 18 29 |
| 7 | 0 7 | 23 14 | 1 4 | 13 46 | 1 39 | 6 54 | 18 20 |
| 10 | 0 3 | 23 21 | 1 9 | 12 32 | 1 20 | 4 19 | 18 10 |
| 13 | 0 0 | 23 27 | 1 14 | 11 17 | 0 56 | 1 36 | 18 1 |
| 16 | 0 S 4 | 23 32 | 1 18 | 10 3 | 0 27 | 1 N 13 | 17 51 |
| 19 | 0 7 | 23 35 | 1 21 | 8 38 | 0 N 6 | 4 3 | 17 42 |
| 22 | 0 11 | 23 37 | 1 23 | 7 15 | 0 42 | 6 47 | 17 32 |
| 25 | 0 15 | 23 38 | 1 26 | 5 50 | 1 18 | 9 20 | 17 23 |
| 28 | 0 19 | 23 38 | 1 28 | 4 22 | 1 53 | 11 36 | 17 13 |
| 31 | 0 24 | 23 37 | 1 29 | 2 54 | 2 24 | 13 28 | 17 4 |

| D
M | h | | ♄ | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|--------|---------|---------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 16 w 45 | 29 57 | 20 f 46 | 18 m 53 | 5 x 8 | | | | | ☉ | ☿ | | | | * | ♈ |
| 2 | 16 50 | 29 53 | 21 22 | 20 7 | 6 57 | | | | | ☉ | ☿ | | | | | ♈ |
| 3 | 16 55 | 29 49 | 21 58 | 21 21 | 8 48 | | | | | ☉ | ☿ | | | | | ♈ |
| 4 | 17 0 | 29 45 | 22 34 | 22 36 | 10 40 | ♀ * ♂ | | | | | | | | Δ | | |
| 5 | 17 5 | 29 41 | 23 10 | 23 50 | 12 33 | | | | | | | | | ☐ | Δ | * |
| 6 | 17 10 | 29 37 | 23 46 | 25 4 | 14 27 | ♀ * ♈ | | | | | | | | ☐ | | |
| 7 | 17 14 | 29 33 | 24 22 | 26 19 | 16 22 | ☉ ☉ ☿ | * | | | ☉ | ☿ | | Δ | | | * |
| 8 | 17 19 | 29 30 | 24 58 | 27 33 | 18 17 | ☿ ☐ ☿ | | | | ☉ | ☿ | | | * | | ☐ |
| 9 | 17 23 | 29 27 | 25 33 | 28 47 | 20 14 | ☉ * ♈ | | | | ☉ | ☿ | | | | ♈ | ☐ |
| 10 | 17 28 | 29 24 | 26 9 | 0 x 2 | 22 12 | | | | | | | | | | ♈ | Δ |
| 11 | 17 32 | 29 21 | 26 44 | 1 16 | 24 10 | | | | | Δ | | ♈ | | | | |
| 12 | 17 37 | 29 18 | 27 20 | 2 30 | 26 9 | ☿ ☐ ♂ | | | | | Δ | | | ♈ | | Δ |
| 13 | 17 41 | 29 15 | 27 55 | 3 45 | 28 8 | ☿ Δ ☿ | | | | | | | | | | |
| 14 | 17 45 | 29 13 | 28 30 | 4 59 | 0 r 7 | ☿ Δ ♄ | | | | | ☐ | | | | Δ | |
| 15 | 17 49 | 29 11 | 29 6 | 6 13 | 2 6 | | | | | | | | | | ♈ | |
| 16 | 17 53 | 29 9 | 29 41 | 7 28 | 4 6 | | | | | | | | Δ | | | |
| 17 | 17 57 | 29 7 | 0 w 17 | 8 42 | 6 5 | ♈ * ☿ | | | | ☉ | * | | | * | ☐ | ♈ |
| 18 | 18 1 | 29 5 | 0 52 | 9 56 | 8 2 | ☉ Δ ☿ | | | | | | | ☐ | | | |
| 19 | 18 5 | 29 4 | 1 27 | 11 11 | 9 58 | | | | | | | | | ☐ | * | |
| 20 | 18 9 | 29 3 | 2 12 | 25 11 | 53 | ☉ Δ ♄ | | | | | | | | | | Δ |
| 21 | 18 12 | 29 3 | 2 37 | 13 39 | 13 46 | | | | | | | | * | | | |
| 22 | 18 16 | 29 2 | 3 11 | 14 54 | 15 37 | | | | | Δ | ☉ | | | Δ | | |
| 23 | 18 19 | 29 2 | 3 46 | 16 8 | 17 25 | | | | | | | | | | | ☐ |
| 24 | 18 23 | 29 1 | 4 21 | 17 22 | 19 9 | ☿ ☐ ♈ | | | | | | | | | | Δ |
| 25 | 18 26 | 29 1 | 4 55 | 18 37 | 20 49 | ♀ * ♈ | | | | ☐ | | | | | ♈ | |
| 26 | 18 29 | 29 D 1 | 5 30 | 19 51 | 22 25 | ☉ ☐ ♂ | | | | | | | ☉ | | | * |
| 27 | 18 32 | 29 1 | 6 4 | 21 5 | 23 57 | | | | | * | * | | | ♈ | | ☐ |
| 28 | 18 35 | 29 2 | 6 38 | 22 19 | 25 26 | | | | | | | | | | | |
| 29 | 18 38 | 29 2 | 7 12 | 23 34 | 26 49 | | | | | | ☐ | | | * | | * |
| 30 | 18 41 | 29 3 | 7 46 | 24 48 | 28 5 | | | | | | | | * | | * | |
| 31 | 18 44 | 29 4 | 8 20 | 26 2 | 29 15 | ☿ ☐ ♄ | | | | Δ | | | Δ | | ♈ | |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 08 26 | 23 N 36 | 18 29 | 28 27 | 2 N 33 | 13 N 59 | 17 Ω 1 |
| 4 | 0 31 | 23 33 | 1 29 | 0 54 | 2 54 | 15 14 | 16 51 |
| 7 | 0 36 | 23 29 | 1 28 | 0 N 31 | 3 6 | 15 59 | 16 42 |
| 10 | 0 41 | 23 25 | 1 27 | 2 0 | 3 7 | 16 13 | 16 32 |
| 13 | 0 46 | 23 20 | 1 26 | 3 28 | 2 55 | 15 55 | 16 28 |
| 16 | 0 52 | 23 15 | 1 24 | 4 55 | 2 29 | 15 8 | 16 13 |
| 19 | 0 58 | 23 7 | 1 21 | 6 23 | 1 52 | 13 57 | 16 4 |
| 22 | 1 5 | 23 0 | 1 18 | 7 50 | 1 6 | 12 31 | 15 54 |
| 25 | 1 11 | 22 52 | 1 14 | 9 14 | 0 16 | 11 2 | 15 45 |
| 28 | 1 17 | 22 40 | 1 10 | 10 34 | 08 35 | 9 39 | 15 35 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|----------|-----------|---------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 18 w 47 | 29 5 | 8 w 54 | 27 x 16 | 08 20 | | | ♈ | | ☐ | | ☐ | |
| 2 | 18 50 | 29 6 9 | 27 28 30 | 1 21 | | | | ♈ | | ☐ | | | ♈ |
| 3 | 18 52 | 29 8 10 | 1 29 44 | 2 14 | ♀ Δ ♈ | | | | ♈ | Δ | | Δ | |
| 4 | 18 55 | 29 10 10 | 34 0 r 58 | 2 58 | | | | ♈ | ♈ | * | | * | |
| 5 | 18 57 | 29 12 11 | 8 2 12 | 3 36 | | | | * | | | | | |
| 6 | 18 50 | 29 14 11 | 41 8 26 | 4 9 | | | | | | | | | * |
| 7 | 19 1 | 29 16 12 | 14 4 41 | 4 36 | | | | ☐ | | | | ♈ | |
| 8 | 19 3 | 29 18 12 | 47 5 55 | 4 56 | | | | | Δ | ♈ | | ♈ | |
| 9 | 19 5 | 29 21 13 | 20 7 9 | 5 9 | ☉ ☐ h | | | Δ | ☐ | | | | ☐ |
| 10 | 19 7 | 29 24 13 | 53 8 23 | 5 14 | | | | | | | | | |
| 11 | 19 9 | 29 27 14 | 26 9 37 | 5 R 13 | | | | | | | | | Δ |
| 12 | 19 11 | 29 30 14 | 59 10 51 | 5 7 | | | | | | Δ | | Δ | |
| 13 | 19 12 | 29 33 15 | 32 12 6 | 4 55 | | | | | * | | * | | |
| 14 | 19 14 | 29 37 16 | 4 13 20 | 4 37 | | | | | | | | ☐ | ♈ |
| 15 | 19 15 | 29 41 16 | 36 14 34 | 4 14 | | | | ♈ | | ☐ | | | |
| 16 | 19 16 | 29 45 17 | 8 15 48 | 3 47 | | | | | | | ☐ | | ♈ |
| 17 | 19 17 | 29 49 17 | 40 17 2 | 3 16 | | | | | | * | | * | |
| 18 | 19 18 | 29 53 18 | 12 18 16 | 2 41 | | | | | ♈ | | Δ | | |
| 19 | 19 19 | 29 57 18 | 43 19 30 | 2 2 | ♀ ☐ h | | | | | | | | |
| 20 | 19 20 | 0 Ω 2 19 | 14 20 44 | 1 22 | ☉ ☐ ♈ | | | | | | | | Δ |
| 21 | 19 21 | 0 7 19 | 45 21 58 | 0 42 | ☉ ☐ ♈ | | | Δ | | | | | Δ |
| 22 | 19 21 | 0 12 20 | 16 23 12 | 0 1 | ♈ ☐ h | | | | | ♈ | | ♈ | |
| 23 | 19 22 | 0 17 20 | 47 24 26 | 29 r 21 | ♀ Δ ♈ | | | ☐ | * | | ♈ | | ☐ |
| 24 | 19 23 | 0 22 21 | 18 25 40 | 28 41 | | | | | | | | | |
| 25 | 19 23 | 0 27 21 | 49 26 54 | 28 2 | | | | | ☐ | | | | * |
| 26 | 19 24 | 0 33 22 | 19 28 8 | 27 26 | ♀ ☐ ♈ | | | * | | | | | |
| 27 | 19 24 | 0 38 22 | 49 29 22 | 26 53 | | | | | Δ | * | | * | |
| 28 | 19 R 24 | 0 44 23 | 19 08 36 | 26 24 | | | | | | | Δ | | |
| 29 | 19 24 | 0 50 23 | 49 1 50 | 25 58 | | | | | | ☐ | | ☐ | ♈ |
| 30 | 19 24 | 0 56 24 | 19 3 4 | 25 37 | | | | ♈ | | | ☐ | | ♈ |

MAY XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's |
|-------|---------|--------|---------|----------|---------|---------|
| t. | Declin. | Lat. | Declin. | Lat. | Declin. | Node. |
| ' | ' | ' | ' | ' | ' | ' |
| 25 | 22 S 35 | 1 S 5 | 11 N 56 | 1 S 22 | 8 N 32 | 15 Q 25 |
| 32 | 22 26 | 1 0 | 13 12 | 2 2 | 7 46 | 15 16 |
| 40 | 23 17 | 0 55 | 14 29 | 2 35 | 7 23 | 15 6 |
| 48 | 23 6 | 0 49 | 15 37 | 2 59 | 7 22 | 14 57 |
| 56 | 21 59 | 0 43 | 16 49 | 3 14 | 7 43 | 14 47 |
| 5 | 21 55 | 0 37 | 17 50 | 3 28 | 8 20 | 14 38 |
| 14 | 21 43 | 0 30 | 18 53 | 3 24 | 9 15 | 14 28 |
| 24 | 21 36 | 0 23 | 19 46 | 3 18 | 10 24 | 14 19 |
| 34 | 21 29 | 0 16 | 20 40 | 3 7 | 11 45 | 14 9 |
| 45 | 21 23 | 0 9 | 21 23 | 2 50 | 13 15 | 14 0 |
| 57 | 21 18 | 0 2 | 22 4 | 2 28 | 14 52 | 13 50 |

| g. | ♂ | | ♀ | | Mutual | Lunar A. | | | |
|----|-------|---------|--------|---------|--------|----------|---|---|-----|
| | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ |
| ' | ' | ' | ' | ' | Aspts. | ' | ' | ' | ' |
| 23 | 1 Q 2 | 24 w 49 | 4 s 18 | 25 r 20 | | | ♂ | Δ | |
| 23 | 1 8 | 17 5 | 32 25 | 3 5 | | | | | * |
| 22 | 1 15 | 25 46 | 5 48 | 24 57 | | | | | |
| 22 | 1 22 | 26 14 | 8 0 | 24 D 56 | | * | | | |
| 21 | 1 29 | 26 43 | 9 14 | 24 59 | ♂ * ♀ | | Δ | ♂ | |
| 20 | 1 36 | 27 12 | 10 28 | 25 5 | | | | ♂ | □ |
| 19 | 1 43 | 27 41 | 11 25 | 15 | | □ | | | |
| 18 | 1 50 | 28 7 | 12 55 | 25 30 | | | □ | | Δ |
| 17 | 1 58 | 28 34 | 14 9 | 25 50 | | Δ | | Δ | Δ |
| 16 | 2 5 | 29 1 | 15 23 | 26 14 | ☉ Δ ♂ | | * | | Δ |
| 15 | 2 12 | 29 28 | 16 37 | 2 | | | | * | |
| 14 | 2 20 | 29 55 | 17 51 | 2 | | | | □ | |
| 13 | 2 28 | 0 m 21 | 19 42 | | ♀ Δ ♀ | | | □ | □ |
| 11 | 2 36 | 0 47 | 20 18 | 2 | | | * | | ♂ |
| 10 | 2 44 | 1 12 | 21 32 | 2 | | ♂ | ♂ | | ♂ |
| 8 | 2 58 | 1 38 | 22 46 | 0 s 8 | | | | | |
| 7 | 3 1 | 2 3 | 24 0 | 0 54 | | | | | |
| 5 | 3 9 | 2 28 | 25 14 | 1 49 | | | | | Δ |
| 3 | 3 18 | 2 53 | 26 27 | 2 47 | | | | | |
| 1 | 3 27 | 3 18 | 27 41 | 3 48 | | | | | Δ |
| 59 | 3 36 | 3 55 | 4 52 | ♂ ♂ ♀ | | | | ♂ | ♂ |
| 57 | 3 45 | 4 5 | 0 II 9 | 5 59 | | | □ | | □ |
| 55 | 3 54 | 4 28 | 1 28 | 7 9 | | □ | | | □ * |
| 53 | 4 3 | 4 50 | 2 37 | 8 22 | ♀ * ♀ | | * | | |
| 50 | 4 12 | 5 11 | 3 50 | 9 37 | ☉ ♂ ♀ | * | Δ | Δ | * * |
| 48 | 4 21 | 5 32 | 5 4 | 10 56 | ☉ * ♀ | | | □ | □ |
| 45 | 4 31 | 5 53 | 6 18 | 12 17 | ☉ Δ ♂ | | | □ | □ |
| 42 | 4 40 | 6 14 | 7 32 | 13 41 | | | Δ | | ♂ |
| 39 | 4 50 | 6 35 | 8 45 | 15 7 | | ♂ | ♂ | * | Δ |
| 36 | 4 59 | 6 55 | 9 59 | 16 36 | | | | | ♂ |
| 33 | 5 9 | 7 15 | 11 18 | 18 8 | ♀ Δ ♀ | | | | |

RAPHAEL'S

TRONOMICAL EPHEMERIS

OF THE

PLANET'S PLACES

For 1813.

(REVISED AND CORRECTED.)



LONDON:

**PRINTED AND PUBLISHED BY THE AUTHOR,
1888.**

Price One Shilling.

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Ju |
|--------|-------------------|----|-----------|----------|---------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° |
| 1 | 15 | 45 | 0 N 14 | 11 11 11 | 0 N 18 | 22 8 | 0 N 42 |
| 4 | 15 | 45 | 0 14 | 18 38 | 0 18 | 22 10 | 0 42 |
| 7 | 15 | 45 | 0 14 | 18 37 | 0 18 | 22 12 | 0 42 |
| 10 | 15 | 46 | 0 13 | 18 36 | 0 18 | 22 14 | 0 42 |
| 13 | 15 | 46 | 0 13 | 18 36 | 0 17 | 22 15 | 0 42 |
| 16 | 15 | 46 | 0 13 | 18 35 | 0 17 | 22 17 | 0 42 |
| 19 | 15 | 46 | 0 13 | 18 35 | 0 17 | 22 19 | 0 43 |
| 22 | 15 | 46 | 0 13 | 18 34 | 0 16 | 22 21 | 0 43 |
| 25 | 15 | 47 | 0 13 | 18 34 | 0 16 | 22 22 | 0 43 |
| 28 | 15 | 47 | 0 13 | 18 34 | 0 16 | 22 24 | 0 43 |
| 31 | 15 | 47 | 0 13 | 18 33 | 0 16 | 22 26 | 0 43 |

| D
M | D
W | Siderea ^l
Time. | | ☉ | | ☽ | | ☿ | |
|--------|--------|-------------------------------|----|-------|---------|-------|------|---------|--------|
| | | | | Long. | Declin. | Long. | Lat. | Declin. | Lat. |
| | | H. | M. | S. | ° | ' | " | ° | ' |
| 1 | Th | 6 | 36 | 34 | 10 | 9 | 42 | 23 N 9 | 22 2 0 |
| 2 | F | 6 | 40 | 31 | 10 | 6 | 55 | 23 5 | 5 20 |
| 3 | S | 6 | 44 | 27 | 11 | 4 | 8 | 23 0 | 18 16 |
| 4 | S | 6 | 48 | 24 | 12 | 1 | 21 | 23 55 | 0 51 |
| 5 | M | 6 | 52 | 21 | 13 | 58 | 33 | 23 50 | 18 8 |
| 6 | Tu | 6 | 56 | 17 | 13 | 55 | 45 | 23 44 | 25 13 |
| 7 | W | 7 | 0 | 14 | 14 | 52 | 58 | 23 38 | 7 9 |
| 8 | Th | 7 | 4 | 10 | 15 | 50 | 9 | 23 31 | 19 2 |
| 9 | F | 7 | 8 | 7 | 16 | 47 | 21 | 23 24 | 0 55 |
| 10 | S | 7 | 12 | 3 | 17 | 44 | 33 | 23 17 | 12 52 |
| 11 | S | 7 | 16 | 0 | 18 | 41 | 45 | 23 9 | 24 54 |
| 12 | M | 7 | 19 | 56 | 19 | 38 | 57 | 23 1 | 7 6 |
| 13 | Tu | 7 | 23 | 53 | 20 | 35 | 10 | 23 19 | 27 8 |
| 14 | W | 7 | 27 | 50 | 21 | 33 | 22 | 23 44 | 3 0 |
| 15 | Th | 7 | 31 | 46 | 22 | 30 | 35 | 23 35 | 14 44 |
| 16 | F | 7 | 35 | 43 | 23 | 27 | 49 | 23 25 | 27 43 |
| 17 | S | 7 | 39 | 39 | 24 | 25 | 3 | 23 15 | 10 53 |
| 18 | S | 7 | 43 | 36 | 25 | 23 | 18 | 23 5 | 24 18 |
| 19 | M | 7 | 47 | 32 | 26 | 19 | 33 | 23 54 | 7 57 |
| 20 | Tu | 7 | 51 | 29 | 27 | 16 | 50 | 23 48 | 21 51 |
| 21 | W | 7 | 55 | 25 | 28 | 14 | 8 | 23 32 | 5 58 |
| 22 | Th | 7 | 59 | 21 | 29 | 11 | 26 | 23 20 | 20 17 |
| 23 | F | 8 | 3 | 19 | 0 | 8 | 46 | 23 8 | 4 44 |
| 24 | S | 8 | 7 | 15 | 1 | 6 | 7 | 23 56 | 19 17 |
| 25 | S | 8 | 11 | 12 | 2 | 3 | 23 | 23 48 | 3 49 |
| 26 | M | 8 | 15 | 8 | 3 | 0 | 51 | 23 30 | 18 15 |
| 27 | Tu | 8 | 19 | 5 | 3 | 58 | 14 | 23 17 | 2 29 |
| 28 | W | 8 | 23 | 1 | 4 | 55 | 33 | 23 9 | 16 27 |
| 29 | Th | 8 | 26 | 58 | 5 | 53 | 3 | 23 49 | 0 5 |
| 30 | F | 8 | 30 | 54 | 6 | 50 | 23 | 23 35 | 13 22 |
| 31 | S | 8 | 34 | 51 | 7 | 47 | 54 | 23 20 | 26 18 |

JULY XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's Node. |
|-------|---------|--------|---------|----------|---------|--------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° | ' | ° | ' | ° | ' | ° |
| 58 5 | 21 54 | 1 N 5 | 23 N 9 | 1 N 52 | 23 N 47 | 12 12 |
| 18 | 22 9 | 1 10 | 22 37 | 1 52 | 22 48 | 12 2 |
| 31 | 22 24 | 1 14 | 22 3 | 1 47 | 21 33 | 11 53 |
| 44 | 22 39 | 1 18 | 21 21 | 1 35 | 20 7 | 11 43 |
| 55 | 22 59 | 1 22 | 20 35 | 1 20 | 18 32 | 11 34 |
| 6 | 22 18 | 1 26 | 19 40 | 0 59 | 16 51 | 11 24 |
| 16 | 22 37 | 1 27 | 18 46 | 0 36 | 15 7 | 11 15 |
| 24 | 22 56 | 1 28 | 17 40 | 0 8 | 13 21 | 11 6 |
| 31 | 24 16 | 1 30 | 16 33 | 0 21 | 11 37 | 10 56 |
| 36 | 24 35 | 1 30 | 15 26 | 0 54 | 9 55 | 10 46 |
| 41 | 24 50 | 1 31 | 14 3 | 1 27 | 8 19 | 10 37 |

| h | Long. | Long. | Long. | Long. | Mutual Aspects. | Lunar Aspects. | | | | | |
|-------|-------|-------|-------|-------|-----------------|----------------|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Aspects. | ☉ | ☿ | ♈ | ♊ | ♋ | ♌ |
| ° | ' | ' | ' | ' | | | | | | | |
| 36 | 10 54 | 12 38 | 19 18 | 20 10 | | | ☐ | | | | |
| 37 | 11 6 | 12 37 | 20 33 | 22 10 | | * | * | Δ | | * | * |
| 28 | 11 18 | 12 35 | 21 47 | 24 7 | ☿ Δ ☿ | | * | | | * | * |
| 23 | 11 30 | 12 33 | 23 0 | 26 1 | | | | | | | * |
| 19 | 11 42 | 12 30 | 24 13 | 27 54 | ☿ Δ ☿ | ☐ | | ☐ | ☿ | Δ | |
| 15 | 11 54 | 12 26 | 25 27 | 29 45 | | | | | | | ☐ |
| 10 | 12 7 | 12 22 | 26 40 | 1 35 | ☿ ☿ ☿ | | | | ☐ | ☐ | ☐ |
| 6 | 12 19 | 12 17 | 27 54 | 8 23 | ☉ ☿ ☿ | Δ | ☉ | ☿ | | | |
| 1 | 12 32 | 12 11 | 29 8 | 5 8 | | | | | | Δ | Δ |
| 57 | 12 44 | 12 4 | 0 21 | 6 51 | | | | | Δ | * | |
| 52 | 12 57 | 11 57 | 1 35 | 8 32 | | | | | | | |
| 48 | 13 9 | 11 49 | 2 49 | 10 11 | | | | | | | |
| 43 | 13 22 | 11 40 | 4 2 | 11 49 | ☿ ☿ ☿ | ☿ | * | ☉ | | | |
| 39 | 13 34 | 11 30 | 5 16 | 13 24 | ☿ ☉ ☿ | | | | ☿ | ☉ | ☿ |
| 34 | 13 47 | 11 19 | 6 30 | 14 57 | | | | | ☿ | ☉ | ☿ |
| 30 | 14 0 | 11 8 | 7 43 | 16 29 | | | ☐ | | | | |
| 25 | 14 12 | 10 8 | 8 57 | 17 59 | ☉ Δ ☿ | | Δ | ☐ | | | |
| 21 | 14 25 | 10 46 | 10 11 | 19 27 | | Δ | Δ | | | | |
| 17 | 14 38 | 10 35 | 11 24 | 20 52 | ☿ ☿ ☿ | | | Δ | ☐ | Δ | Δ |
| 12 | 14 51 | 10 23 | 12 38 | 22 15 | | | | ☐ | | | Δ |
| 8 | 15 4 | 10 10 | 13 51 | 23 35 | ☿ ☐ ☿ | ☐ | | | | ☐ | |
| 4 | 15 17 | 9 56 | 14 5 | 24 56 | ☿ ☉ ☿ | * | ☿ | Δ | ☐ | ☐ | ☐ |
| 0 | 15 30 | 9 41 | 15 18 | 26 13 | | | | | | Δ | |
| 56 | 15 43 | 9 26 | 16 32 | 27 28 | | | | * | | * | * |
| 52 | 15 56 | 9 10 | 17 45 | 28 40 | | | | | | | * |
| 48 | 16 9 | 8 55 | 18 59 | 29 50 | | | Δ | ☿ | | | |
| 44 | 16 22 | 8 39 | 19 21 | 0 58 | | ☉ | | | ☿ | ☿ | |
| 40 | 16 35 | 8 28 | 20 26 | 2 3 | | | | | ☉ | ☉ | |
| 36 | 16 48 | 8 7 | 21 40 | 3 5 | ☿ ☐ ☿ | | ☐ | | | | ☉ |
| 32 | 17 1 | 7 51 | 22 54 | 4 5 | | | Δ | | | | |
| 28 | 17 14 | 7 35 | 23 8 | 5 2 | ☉ ☿ ☿ | | | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jup |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 15 | 47 | 0 N 13 | 18 33 | 0 N 15 | 22 28 | 0 N 43 |
| 4 | 15 | 47 | 0 13 | 18 33 | 0 15 | 22 28 | 0 43 |
| 7 | 15 | 48 | 0 13 | 18 33 | 0 15 | 22 29 | 0 44 |
| 10 | 15 | 48 | 0 13 | 18 34 | 0 15 | 22 30 | 0 44 |
| 13 | 15 | 49 | 0 13 | 18 34 | 0 14 | 22 31 | 0 44 |
| 16 | 15 | 49 | 0 13 | 18 35 | 0 14 | 22 32 | 0 44 |
| 19 | 15 | 50 | 0 13 | 18 35 | 0 13 | 22 34 | 0 44 |
| 22 | 15 | 50 | 0 13 | 18 36 | 0 13 | 22 35 | 0 44 |
| 25 | 15 | 51 | 0 13 | 18 37 | 0 13 | 22 36 | 0 45 |
| 28 | 15 | 51 | 0 13 | 18 38 | 0 13 | 22 37 | 0 45 |
| 31 | 15 | 52 | 0 13 | 18 39 | 0 12 | 22 38 | 0 45 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☿
Long. | ♂
Lat. | ♂
Declin. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 8 38 47 | 8 2 45 21 | 18 N 5 | 8 2 54 | 4 N 30 | 0 N 37 |
| 2 | M | 8 42 44 | 9 42 48 | 17 50 21 | 13 4 59 | 3 S 39 | |
| 3 | Tu | 8 46 41 | 10 40 16 | 17 35 8 | 19 5 15 | 7 42 | |
| 4 | W | 8 50 37 | 11 37 45 | 17 19 15 | 16 5 16 | 11 23 | |
| 5 | Th | 8 54 34 | 12 35 15 | 17 3 27 | 10 5 41 | 14 37 | |
| 6 | F | 8 58 30 | 13 32 45 | 16 46 9 | 4 4 39 | 17 14 | |
| 7 | S | 9 2 27 | 14 30 16 | 16 30 21 | 2 1 19 | 9 | |
| 8 | S | 9 6 28 | 15 27 48 | 16 13 3 | 3 13 20 | 13 | |
| 9 | M | 9 10 20 | 16 25 21 | 15 56 15 | 28 2 15 | 20 20 | |
| 10 | Tu | 9 14 16 | 17 22 56 | 15 38 28 | 1 1 9 | 19 27 | |
| 11 | W | 9 18 13 | 18 20 29 | 15 21 10 | 49 0 8 | 17 34 | |
| 12 | Th | 9 22 10 | 19 18 6 | 15 3 23 | 55 1 13 | 14 43 | |
| 13 | F | 9 26 6 | 20 15 43 | 14 45 7 | 16 2 23 | 11 3 | |
| 14 | S | 9 30 3 | 21 13 21 | 14 28 3 | 52 3 25 | 6 46 | |
| 15 | S | 9 33 59 | 22 11 1 | 14 8 4 | 40 4 17 | 2 4 | |
| 16 | M | 9 37 56 | 23 8 48 | 13 49 18 | 39 4 54 | 2 N 47 | |
| 17 | Tu | 9 41 52 | 24 6 26 | 13 30 2 | 45 5 13 | 7 32 | |
| 18 | W | 9 45 49 | 25 4 11 | 13 11 16 | 56 5 14 | 11 53 | |
| 19 | Th | 9 49 45 | 26 1 53 | 12 51 1 | 10 4 56 | 15 35 | |
| 20 | F | 9 53 42 | 26 59 47 | 12 32 15 | 23 4 19 | 13 23 | |
| 21 | S | 9 57 39 | 27 57 37 | 12 13 29 | 33 3 27 | 20 1 | |
| 22 | S | 10 1 35 | 28 55 29 | 11 50 13 | 39 2 23 | 20 24 | |
| 23 | M | 10 5 31 | 29 53 23 | 11 31 27 | 37 1 10 | 19 30 | |
| 24 | Tu | 10 9 28 | 0 51 18 | 11 11 11 | 25 0 N 5 | 17 27 | |
| 25 | W | 10 13 25 | 1 49 16 | 10 59 25 | 1 1 19 | 14 26 | |
| 26 | Th | 10 17 21 | 2 47 16 | 10 29 8 | 23 2 27 | 10 43 | |
| 27 | F | 10 21 18 | 3 45 15 | 10 8 21 | 27 3 26 | 6 33 | |
| 28 | S | 10 25 14 | 4 43 17 | 9 47 4 | 16 4 14 | 2 11 | |
| 29 | S | 10 29 11 | 5 41 20 | 9 26 16 | 48 4 48 | 11 | |
| 30 | M | 10 33 7 | 6 39 23 | 9 5 29 | 6 5 7 | 6 23 | |
| 31 | Tu | 10 37 4 | 7 37 31 | 8 43 11 | 12 5 13 | 10 14 | |

AUGUST XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's Node. |
|-------|----------|--------|---------|----------|---------|--------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° | ' | ° | ' | ° | ' | ° |
| 8 42 | 24 55 56 | 1 N 30 | 13 N 49 | 1 S 39 | 7 N 48 | 10 m 38 |
| 43 | 25 9 | 1 29 | 12 36 | 2 14 | 6 23 | 10 23 |
| 44 | 25 32 | 1 33 | 11 10 | 2 49 | 5 9 | 10 14 |
| 42 | 25 30 | 1 26 | 9 45 | 3 23 | 4 10 | 10 4 |
| 38 | 25 38 | 1 23 | 8 20 | 3 54 | 3 31 | 9 55 |
| 33 | 25 42 | 1 20 | 6 50 | 4 19 | 3 16 | 9 31 |
| 27 | 25 44 | 1 16 | 5 22 | 4 36 | 3 27 | 9 36 |
| 19 | 25 42 | 1 11 | 3 50 | 4 38 | 4 8 | 9 26 |
| 11 | 25 38 | 1 6 | 2 19 | 4 25 | 5 16 | 9 17 |
| 2 | 25 30 | 1 0 | 0 45 | 3 56 | 6 44 | 9 7 |
| 52 | 25 20 | 0 54 | 0 3 46 | 3 10 | 8 18 | 8 58 |

| ♂ | | ♀ | | ♂ | | ♀ | | Mutual Aspects. | | Lunar Aspects. | | | | | | | |
|-------|-------|--------|-------|--------|-------|-------|-------|-----------------|----------|----------------|---|---|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Aspects. | Aspects. | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ |
| ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | | | |
| 24 17 | 27 27 | 7 m 19 | 27 21 | 5 m 57 | | | | | | * | | □ | | Δ | * | | |
| 20 17 | 40 7 | 3 28 | 35 6 | 49 | | | | | | | | | * | □ | * | * | |
| 16 17 | 53 8 | 47 29 | 48 7 | 36 | | | | | | □ | | * | □ | | * | * | |
| 18 18 | 6 6 | 31 1 | 3 8 | 19 | | | | | | □ | ♂ | * | □ | | □ | | |
| 9 18 | 19 6 | 15 2 | 15 8 | 59 | | | | | | | | | | | | | |
| 5 18 | 32 5 | 59 3 | 29 9 | 36 | | | | | | Δ | | | | * | | □ | |
| 2 18 | 45 5 | 44 4 | 42 10 | 9 | | | | | | | | | | | | | |
| 58 18 | 58 5 | 29 5 | 56 10 | 38 | | | | | | | | | | | Δ | | |
| 55 19 | 11 5 | 14 7 | 9 11 | 2 | | | | | | | | | | | | Δ | |
| 51 19 | 24 5 | 0 8 | 23 11 | 22 | | | | | | | * | | | | | | |
| 48 19 | 37 4 | 46 9 | 36 11 | 37 | | | | | | | | | | | ♂ | | |
| 45 19 | 50 4 | 33 10 | 50 11 | 47 | | | | | | ♂ | □ | * | ♂ | ♂ | ♂ | ♂ | ♂ |
| 42 20 | 4 4 | 20 12 | 3 11 | 52 | ☉ ♂ ♀ | ♂ | ♂ | | | ☉ ♂ ♀ | ♂ | Δ | ♂ | ♂ | ♂ | ♂ | ♂ |
| 39 20 | 17 4 | 8 13 | 16 11 | 52 | ♀ Δ ♀ | ♀ | ♀ | | | ♀ Δ ♀ | ♀ | Δ | ♀ | ♀ | ♀ | ♀ | ♀ |
| 36 20 | 30 3 | 56 14 | 30 11 | 46 | | | | | | | | | | | | | |
| 33 20 | 43 3 | 45 15 | 43 11 | 38 | | | | | | Δ | | □ | Δ | | | | |
| 30 20 | 56 3 | 34 16 | 57 11 | 14 | ☉ □ ♀ | ☉ | ☉ | | | ☉ □ ♀ | ☉ | ♂ | Δ | □ | □ | Δ | Δ |
| 27 21 | 9 8 | 24 18 | 10 10 | 50 | | | | | | □ | ♂ | Δ | □ | | Δ | Δ | Δ |
| 25 21 | 23 3 | 15 19 | 23 10 | 22 | | | | | | | | | | Δ | | | |
| 22 21 | 36 3 | 6 20 | 37 9 | 48 | | | | | | | | | * | | □ | □ | □ |
| 20 21 | 49 2 | 58 21 | 50 9 | 9 | | | | | | * | | | | | | | |
| 17 22 | 2 2 | 50 23 | 4 8 | 24 | ♀ * ♀ | ♀ | ♀ | | | ♀ * ♀ | ♀ | ♂ | | ♂ | * | * | * |
| 15 22 | 15 2 | 43 24 | 17 7 | 36 | | | | | | | Δ | | | ♂ | * | | |
| 12 22 | 28 2 | 37 25 | 31 6 | 45 | | | | | | | | | | | | | |
| 10 22 | 41 2 | 32 26 | 44 5 | 51 | | | | | | □ | | ♂ | | | | | |
| 8 22 | 54 2 | 27 27 | 57 4 | 56 | | | | | | ♂ | | Δ | | | | | ♂ |
| 6 23 | 7 2 | 28 29 | 11 4 | 1 | ☉ ♂ ♀ | ☉ | ☉ | | | ☉ ♂ ♀ | ☉ | * | | | | | |
| 4 23 | 20 2 | 20 0 | 24 3 | 5 | | | | | | | | | | | Δ | ♂ | |
| 3 23 | 33 2 | 18 1 | 37 2 | 11 | | | | | | | | | | □ | | | |
| 1 23 | 46 2 | D 18 2 | 50 1 | 22 | ♀ Δ ♂ | ♀ | ♀ | | | ♀ Δ ♂ | ♀ | * | * | □ | | | |
| 59 23 | 59 2 | 19 4 | 4 0 | 37 | | | | | | * | | * | | | | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jup |
|--------|-------------------|----|-----------|---------|---------|---------|--------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. |
| 1 | 15 | 54 | 0 N 12 | 18 S 40 | 0 N 12 | 22 S 38 | 0 N 46 |
| 4 | 15 | 54 | 0 12 | 18 41 | 0 12 | 22 39 | 0 46 |
| 7 | 15 | 55 | 0 12 | 18 43 | 0 12 | 22 39 | 0 46 |
| 10 | 15 | 56 | 0 12 | 18 44 | 0 12 | 22 40 | 0 46 |
| 13 | 15 | 57 | 0 12 | 18 45 | 0 11 | 22 40 | 0 47 |
| 16 | 15 | 57 | 0 12 | 18 46 | 0 11 | 22 41 | 0 47 |
| 19 | 15 | 58 | 0 12 | 18 48 | 0 10 | 22 41 | 0 48 |
| 22 | 15 | 59 | 0 12 | 18 50 | 0 10 | 22 41 | 0 48 |
| 25 | 16 | 0 | 0 12 | 18 52 | 0 10 | 22 41 | 0 48 |
| 28 | 16 | 0 | 0 12 | 18 54 | 0 10 | 22 41 | 0 48 |

| D
M | D
W | Mercurial
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. |
|--------|--------|--------------------|------------|--------------|------------|-----------|--------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 10 41 2 | 8 35 38 | 8 N 21 | 23 m 9 | 5 N 5 | 18 S 38 |
| 2 | Th | 10 44 57 | 9 33 47 | 7 59 | 5 f 1 | 4 44 | 16 30 |
| 3 | F | 10 48 54 | 10 31 58 | 7 37 | 16 54 | 4 11 | 18 39 |
| 4 | S | 10 52 50 | 11 30 9 | 7 15 | 28 52 | 3 27 | 30 1 |
| 5 | S | 10 56 47 | 12 28 28 | 6 53 | 10 w 59 | 2 33 | 20 28 |
| 6 | M | 11 0 43 | 13 26 38 | 6 31 | 23 21 | 1 31 | 19 57 |
| 7 | Tu | 11 4 40 | 14 24 44 | 6 8 | 6 m 1 | 0 23 | 18 25 |
| 8 | W | 11 8 37 | 15 23 11 | 5 46 | 19 2 | 0 8 48 | 15 54 |
| 9 | Th | 11 12 33 | 16 21 31 | 5 23 | 2 x 24 | 1 58 | 12 28 |
| 10 | F | 11 16 30 | 17 19 53 | 5 1 | 16 8 | 3 3 | 8 17 |
| 11 | S | 11 20 26 | 18 18 16 | 4 38 | 0 r 11 | 3 58 | 3 34 |
| 12 | S | 11 24 23 | 19 16 41 | 4 15 | 14 28 | 4 40 | 1 N 24 |
| 13 | M | 11 28 19 | 20 15 7 | 3 52 | 28 53 | 5 4 | 6 21 |
| 14 | Tu | 11 32 16 | 21 13 37 | 3 29 | 18 22 | 5 9 | 10 52 |
| 15 | W | 11 36 12 | 22 12 8 | 3 6 | 27 43 | 4 54 | 14 54 |
| 16 | Th | 11 40 9 | 23 10 43 | 2 49 | 12 8 | 4 21 | 17 57 |
| 17 | F | 11 44 6 | 24 9 18 | 2 19 | 26 16 | 3 33 | 19 52 |
| 18 | S | 11 48 2 | 25 7 56 | 1 56 | 10 14 | 2 32 | 20 32 |
| 19 | S | 11 51 59 | 26 6 37 | 1 33 | 24 0 | 1 24 | 19 57 |
| 20 | M | 11 55 55 | 27 5 20 | 1 10 | 7 2 34 | 0 11 | 18 13 |
| 21 | Tu | 11 59 52 | 28 4 5 | 0 46 | 30 57 | 1 N 37 | 15 29 |
| 22 | W | 12 3 48 | 29 2 52 | 0 23 | 4 m 9 | 2 8 | 11 59 |
| 23 | Th | 12 7 45 | 0 1 42 | 0 8 | 1 17 9 | 3 8 | 7 56 |
| 24 | F | 12 11 41 | 1 0 33 | 0 24 | 39 57 | 3 57 | 3 38 |
| 25 | S | 12 15 38 | 1 59 27 | 0 48 | 12 33 | 4 33 | 0 8 46 |
| 26 | S | 12 19 34 | 2 58 22 | 1 11 | 24 56 | 4 56 | 5 4 |
| 27 | M | 12 23 31 | 3 57 19 | 1 34 | 7 m 9 | 5 6 | 9 6 |
| 28 | Tu | 12 27 28 | 4 56 19 | 1 58 | 19 11 | 5 0 | 12 43 |
| 29 | W | 12 31 24 | 5 55 20 | 2 21 | 1 f 5 | 4 42 | 15 48 |
| 30 | Th | 12 35 21 | 6 54 19 | 2 45 | 12 56 | 4 13 | 18 12 |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter | |
|--------|-------------------|---|-----------|----------|---------|---------|---------|----|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | De |
| 1 | 16 | 1 | 0 N 12 | 18 55 58 | 0 N 9 | 22 41 | 0 N 49 | 12 |
| 4 | 16 | 1 | 0 12 | 18 58 | 0 9 | 22 41 | 0 49 | 11 |
| 7 | 16 | 2 | 0 12 | 19 1 | 0 9 | 22 41 | 0 50 | 11 |
| 10 | 16 | 3 | 0 12 | 19 3 | 0 9 | 22 40 | 0 50 | 11 |
| 13 | 16 | 4 | 0 12 | 19 5 | 0 8 | 22 40 | 0 51 | 11 |
| 16 | 16 | 5 | 0 12 | 19 7 | 0 8 | 22 39 | 0 51 | 11 |
| 19 | 16 | 5 | 0 12 | 19 9 | 0 7 | 22 39 | 0 52 | 10 |
| 22 | 16 | 6 | 0 11 | 19 11 | 0 7 | 22 39 | 0 52 | 10 |
| 25 | 16 | 7 | 0 11 | 19 13 | 0 7 | 22 37 | 0 53 | 10 |
| 28 | 16 | 7 | 0 11 | 19 15 | 0 7 | 22 36 | 0 53 | 10 |
| 31 | 16 | 8 | 0 11 | 19 18 | 0 7 | 22 35 | 0 54 | 10 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | F | 12 39 17 | 7 53 28 | 3 S 8 | 24 46 | 3 N 32 | 19 S 50 | 26 |
| 2 | S | 12 43 14 | 8 52 35 | 3 31 | 24 41 | 2 41 | 20 36 | 25 |
| 3 | S | 12 47 10 | 9 51 43 | 3 55 | 18 46 | 1 43 | 20 26 | 25 |
| 4 | M | 12 51 7 | 10 50 53 | 4 18 | 1 6 | 0 39 | 19 18 | 25 |
| 5 | Tu | 12 55 8 | 11 50 5 | 4 41 | 13 45 | 0 S 28 | 17 10 | 25 |
| 6 | W | 12 59 0 | 12 49 18 | 5 4 | 26 49 | 1 36 | 14 5 | 25 |
| 7 | Th | 12 2 56 | 13 48 34 | 5 27 | 10 20 | 2 41 | 10 11 | 25 |
| 8 | F | 12 6 53 | 14 47 51 | 5 50 | 24 18 | 3 38 | 5 36 | 25 |
| 9 | S | 12 10 50 | 15 47 10 | 6 13 | 8 40 | 4 23 | 0 36 | 25 |
| 10 | S | 12 14 46 | 16 46 31 | 6 36 | 23 22 | 4 53 | 4 N 33 | 25 |
| 11 | M | 12 18 43 | 17 45 54 | 6 59 | 8 15 | 5 2 | 9 30 | 25 |
| 12 | Tu | 12 22 39 | 18 45 20 | 7 21 | 23 10 | 4 51 | 13 53 | 25 |
| 13 | W | 12 26 36 | 19 44 48 | 7 44 | 7 59 | 4 21 | 17 22 | 25 |
| 14 | Th | 12 30 32 | 20 44 18 | 8 6 | 23 34 | 3 34 | 19 42 | 26 |
| 15 | F | 12 34 29 | 21 43 50 | 8 29 | 6 52 | 2 34 | 20 43 | 26 |
| 16 | S | 12 38 25 | 22 43 25 | 8 51 | 20 49 | 1 26 | 20 25 | 26 |
| 17 | S | 12 42 22 | 23 43 3 | 9 13 | 4 28 | 0 15 | 18 55 | 26 |
| 18 | M | 12 46 19 | 24 42 42 | 9 35 | 17 49 | 0 N 55 | 16 29 | 26 |
| 19 | Tu | 12 50 15 | 25 42 24 | 9 57 | 0 55 | 2 1 | 13 3 | 26 |
| 20 | W | 12 54 12 | 26 42 9 | 10 18 | 13 47 | 3 0 | 9 9 | 26 |
| 21 | Th | 12 58 8 | 27 41 55 | 10 40 | 26 27 | 3 48 | 4 24 | 26 |
| 22 | F | 13 2 5 | 28 41 44 | 11 1 | 8 57 | 4 25 | 0 31 | 26 |
| 23 | S | 13 6 1 | 29 41 35 | 11 22 | 21 19 | 4 49 | 3 S 51 | 26 |
| 24 | S | 13 9 58 | 0 41 28 | 11 44 | 3 31 | 4 59 | 8 0 | 26 |
| 25 | M | 13 13 54 | 1 41 23 | 12 4 | 15 35 | 4 56 | 11 48 | 26 |
| 26 | Tu | 13 17 51 | 2 41 19 | 12 25 | 27 32 | 4 39 | 15 6 | 26 |
| 27 | W | 13 21 48 | 3 41 18 | 13 46 | 9 24 | 4 11 | 17 45 | 26 |
| 28 | Th | 13 25 45 | 4 41 18 | 13 6 | 21 13 | 3 31 | 19 39 | 26 |
| 29 | F | 13 29 42 | 5 41 20 | 13 26 | 3 1 | 2 43 | 20 42 | 26 |
| 30 | S | 13 33 39 | 6 41 24 | 13 46 | 14 54 | 1 47 | 20 52 | 26 |
| 31 | S | 13 37 36 | 7 41 30 | 14 5 | 26 56 | 0 45 | 20 3 | 26 |

OCTOBER XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's |
|-------|---------|--------|---------|----------|---------|--------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | Noda. |
| ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 38 54 | 21 55 | 17 18 | 15 N 53 | 1 N 42 | 1 N 0 | 7 219 |
| 3 43 | 21 25 | 0 43 | 17 6 | 1 30 | 1 19 | 7 9 |
| 3 32 | 20 56 | 0 52 | 18 19 | 1 15 | 3 37 | 7 0 |
| 3 22 | 20 24 | 1 2 | 19 25 | 0 58 | 5 53 | 6 50 |
| 3 12 | 19 52 | 1 11 | 20 28 | 0 39 | 8 6 | 6 41 |
| 3 2 | 19 18 | 1 20 | 21 23 | 0 19 | 10 13 | 6 31 |
| 2 52 | 18 43 | 1 29 | 22 18 | 0 8 1 | 12 15 | 6 22 |
| 2 43 | 18 7 | 1 37 | 23 2 | 0 21 | 14 11 | 6 12 |
| 2 34 | 17 30 | 1 45 | 23 43 | 0 41 | 16 0 | 6 3 |
| 2 25 | 16 50 | 1 54 | 24 22 | 1 1 | 17 42 | 5 53 |
| 2 16 | 16 8 | 2 1 | 24 53 | 1 20 | 19 18 | 5 44 |

| h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual Lunar Aspects. | |
|-------|-------|-------|-------|-------|---|-----------------------|---|
| Long. | Long. | Long. | | | | | |
| ° / | ° / | ° / | | | | | |
| 2 55 | 0 23 | 8 29 | | | | | ♊ |
| 2 57 | 0 35 | 8 51 | | | | | ♊ |
| 2 58 | 0 46 | 9 14 | | | | | ♊ |
| 3 0 | 0 58 | 9 37 | | | | | ♊ |
| 3 1 | 1 9 | 10 1 | | | | | ♊ |
| 3 3 | 1 21 | 10 25 | | | | | ♊ |
| 3 5 | 1 32 | 10 49 | | | | | ♊ |
| 3 7 | 1 43 | 11 14 | | | | | ♊ |
| 3 9 | 1 54 | 11 39 | | | | | ♊ |
| 3 12 | 2 5 | 12 5 | | | | | ♊ |
| 3 14 | 2 16 | 12 31 | | | | | ♊ |
| 3 16 | 2 27 | 12 58 | | | | | ♊ |
| 3 19 | 2 38 | 13 25 | | | | | ♊ |
| 3 21 | 2 49 | 13 52 | | | | | ♊ |
| 3 24 | 2 59 | 14 19 | | | | | ♊ |
| 3 27 | 3 10 | 14 47 | 29 48 | 27 18 | | ♊ | ♊ |
| 3 30 | 3 20 | 15 15 | 1 0 | 28 56 | | ♊ | ♊ |
| 3 33 | 3 31 | 15 44 | 2 12 | 0 84 | | ♊ | ♊ |
| 3 36 | 3 41 | 16 14 | 3 24 | 2 11 | ♊ | ♊ | ♊ |
| 3 39 | 3 51 | 16 44 | 4 36 | 3 47 | ♊ | ♊ | ♊ |
| 3 42 | 4 1 | 17 14 | 5 48 | 5 23 | | ♊ | ♊ |
| 3 46 | 4 11 | 17 44 | 7 0 | 6 58 | | ♊ | ♊ |
| 3 49 | 4 21 | 18 14 | 8 12 | 8 33 | | ♊ | ♊ |
| 3 52 | 4 31 | 18 44 | 9 24 | 10 7 | | ♊ | ♊ |
| 3 56 | 4 40 | 19 15 | 10 35 | 11 40 | | ♊ | ♊ |
| 4 0 | 4 50 | 19 46 | 11 47 | 13 13 | | ♊ | ♊ |
| 4 4 | 4 59 | 20 17 | 12 58 | 14 46 | ♊ | ♊ | ♊ |
| 4 8 | 5 8 | 20 49 | 14 10 | 16 18 | | ♊ | ♊ |
| 4 12 | 5 18 | 21 21 | 15 21 | 17 50 | ♊ | ♊ | ♊ |
| 4 16 | 5 27 | 21 54 | 16 33 | 19 24 | | ♊ | ♊ |
| 4 20 | 5 36 | 22 27 | 17 44 | 20 53 | | ♊ | ♊ |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 11 | 19 S 20 | 0 N 6 | 22 S 35 | 0 N 55 | 10 N 15 |
| 4 | 16 | 10 | 0 11 | 19 23 | 0 6 | 22 33 | 0 55 | 10 6 |
| 7 | 16 | 11 | 0 11 | 19 26 | 0 6 | 22 32 | 0 56 | 9 58 |
| 10 | 16 | 12 | 0 11 | 19 28 | 0 6 | 22 31 | 0 56 | 9 50 |
| 13 | 16 | 12 | 0 11 | 19 30 | 0 5 | 22 30 | 0 57 | 9 42 |
| 16 | 16 | 13 | 0 11 | 19 32 | 0 5 | 22 28 | 0 58 | 9 34 |
| 19 | 16 | 14 | 0 11 | 19 34 | 0 5 | 22 26 | 0 59 | 9 27 |
| 22 | 16 | 14 | 0 11 | 19 37 | 0 5 | 22 25 | 0 59 | 9 21 |
| 25 | 16 | 15 | 0 11 | 19 40 | 0 4 | 22 23 | 1 0 | 9 15 |
| 28 | 16 | 15 | 0 11 | 19 43 | 0 4 | 22 21 | 1 0 | 9 9 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|-------------------|--------------|------------|--------------------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 14 | 41 | 30 | 8 ^m 41 | 37 | 14 S 25 | 9 ^m 11 | 0 S 19 | 18 S 17 |
| 2 | Tu | 14 | 45 | 27 | 9 41 | 45 | 14 44 | 21 46 | 1 25 | 15 36 |
| 3 | W | 14 | 49 | 23 | 10 41 | 55 | 15 3 | 4 ^x 45 | 2 28 | 12 4 |
| 4 | Th | 14 | 53 | 20 | 11 42 | 6 | 15 22 | 18 13 | 3 25 | 7 49 |
| 5 | F | 14 | 57 | 17 | 12 42 | 19 | 15 40 | 2 ^r 11 | 4 13 | 2 59 |
| 6 | S | 15 | 1 | 13 | 13 42 | 34 | 15 58 | 16 39 | 4 45 | 2 N 9 |
| 7 | S | 15 | 5 | 10 | 14 42 | 50 | 16 16 | 1 ⁸ 31 | 5 0 | 7 19 |
| 8 | M | 15 | 9 | 6 | 15 43 | 8 | 16 34 | 16 41 | 4 54 | 12 8 |
| 9 | Tu | 15 | 13 | 3 | 16 43 | 28 | 16 51 | 1 [□] 56 | 4 28 | 16 12 |
| 10 | W | 15 | 16 | 59 | 17 43 | 49 | 17 8 | 17 7 | 3 42 | 19 9 |
| 11 | Th | 15 | 20 | 56 | 18 44 | 12 | 17 25 | 2 ⁵ 3 | 2 42 | 20 45 |
| 12 | F | 15 | 24 | 52 | 19 44 | 38 | 17 41 | 16 38 | 1 32 | 20 54 |
| 13 | S | 15 | 28 | 49 | 20 45 | 5 | 17 58 | 0 ^Q 47 | 0 19 | 19 42 |
| 14 | S | 15 | 32 | 46 | 21 45 | 34 | 18 13 | 14 31 | 0 N 54 | 17 21 |
| 15 | M | 15 | 36 | 42 | 22 46 | 6 | 18 29 | 27 51 | 2 2 | 14 8 |
| 16 | Tu | 15 | 40 | 39 | 23 46 | 39 | 18 44 | 10 ^m 51 | 3 1 | 10 18 |
| 17 | W | 15 | 44 | 35 | 24 47 | 14 | 18 59 | 23 33 | 3 50 | 6 5 |
| 18 | Th | 15 | 48 | 32 | 25 47 | 51 | 19 14 | 6 [△] 1 | 4 27 | 1 42 |
| 19 | F | 15 | 52 | 28 | 26 48 | 29 | 19 28 | 18 18 | 4 51 | 2 S 41 |
| 20 | S | 15 | 56 | 25 | 27 49 | 9 | 19 42 | 0 ^m 27 | 5 2 | 6 55 |
| 21 | S | 16 | 0 | 21 | 28 49 | 51 | 19 55 | 12 28 | 4 59 | 10 51 |
| 22 | M | 16 | 4 | 18 | 29 50 | 35 | 20 8 | 24 25 | 4 42 | 14 20 |
| 23 | Tu | 16 | 8 | 15 | 0 ^f 51 | 19 | 20 21 | 6 ^f 18 | 4 14 | 17 13 |
| 24 | W | 16 | 12 | 11 | 1 52 | 6 | 20 33 | 18 8 | 3 35 | 19 22 |
| 25 | Th | 16 | 16 | 8 | 2 52 | 53 | 20 45 | 29 57 | 3 46 | 20 42 |
| 26 | F | 16 | 20 | 4 | 3 53 | 42 | 20 57 | 11 ^w 48 | 1 50 | 21 7 |
| 27 | S | 16 | 24 | 1 | 4 54 | 31 | 21 8 | 23 43 | 0 48 | 20 35 |
| 28 | S | 16 | 27 | 57 | 5 55 | 22 | 21 19 | 5 ^m 46 | 0 S 16 | 19 7 |
| 29 | M | 16 | 31 | 54 | 6 56 | 14 | 21 29 | 18 1 | 1 21 | 16 44 |
| 30 | Tu | 16 | 35 | 50 | 7 57 | 7 | 21 39 | 0 ^x 33 | 2 24 | 13 32 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , |
| 1 | 28 14 | 15 S 58 | 28 3 | 25 S 2 | 1 S 26 | 19 S 45 | 5 24 41 |
| 4 | 2 6 | 15 20 | 2 9 | 25 22 | 1 48 | 21 8 | 5 31 |
| 7 | 1 58 | 14 35 | 2 15 | 25 39 | 1 58 | 22 21 | 5 22 |
| 10 | 1 51 | 13 52 | 2 19 | 25 46 | 2 11 | 23 24 | 5 12 |
| 13 | 1 43 | 13 8 | 2 25 | 25 50 | 2 22 | 24 16 | 5 3 |
| 16 | 1 46 | 12 23 | 2 28 | 25 49 | 2 29 | 24 57 | 4 53 |
| 19 | 1 29 | 11 38 | 2 21 | 25 35 | 2 32 | 25 25 | 4 44 |
| 22 | 1 22 | 10 57 | 2 32 | 25 15 | 2 30 | 25 40 | 4 34 |
| 25 | 1 16 | 10 5 | 2 33 | 24 54 | 2 22 | 25 43 | 4 25 |
| 28 | 1 10 | 9 17 | 2 33 | 24 23 | 2 5 | 25 31 | 4 15 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|--------|--------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° , | ° , | ° , | ° , | ° , | | | | | | | | |
| 1 | 14 w 24 | 5 w 45 | 23 m 0 | 18 f 56 | 22 m 22 | | ☐ | | | | | | |
| 2 | 14 28 | 5 54 | 23 33 | 20 8 | 23 52 | ☿ ☐ ♈ | | ☐ | | | ♈ | * | ☐ |
| 3 | 14 32 | 6 2 | 24 7 | 21 19 | 25 21 | | Δ | | | ♈ | | | |
| 4 | 14 37 | 6 11 | 24 40 | 22 30 | 26 50 | ☿ ☐ ☿ | | | * | | | ☐ | |
| 5 | 14 41 | 6 19 | 25 14 | 23 41 | 28 18 | | | Δ | | | | | Δ |
| 6 | 14 45 | 6 28 | 25 48 | 24 52 | 29 46 | | | | ☐ | | | | |
| 7 | 14 50 | 6 36 | 26 22 | 26 3 | 1 f 14 | ☉ * ♈ | ♈ | | | Δ | * | Δ | |
| 8 | 14 54 | 6 44 | 26 56 | 27 14 | 2 41 | ☿ * ♈ | ♈ | Δ | | | | | |
| 9 | 14 59 | 6 52 | 27 31 | 28 25 | 4 7 | ♈ ☐ ☿ | | ♈ | | ☐ | ☐ | | ♈ |
| 10 | 15 4 | 7 0 | 28 6 | 29 36 | 5 33 | | | | | | | | |
| 11 | 15 9 | 7 8 | 28 41 | 0 w 47 | 6 58 | ☿ ☐ ♈ | | | | ♈ | * | Δ | ♈ |
| 12 | 15 14 | 7 16 | 29 16 | 1 58 | 8 22 | | Δ | | ♈ | | | | |
| 13 | 15 19 | 7 23 | 29 51 | 3 8 | 9 45 | | | Δ | | | | | |
| 14 | 15 24 | 7 30 | 0 * 26 | 4 19 | 11 7 | | | | | | | | Δ |
| 15 | 15 29 | 7 37 | 1 1 | 5 29 | 12 29 | | ☐ | ☐ | | | | | |
| 16 | 15 35 | 7 44 | 1 87 | 6 39 | 13 50 | | | | Δ | ♈ | ♈ | Δ | ☐ |
| 17 | 15 40 | 7 51 | 2 13 | 7 49 | 15 9 | ☿ Δ ♈ | * | * | | | | | |
| 18 | 15 45 | 7 58 | 2 49 | 8 59 | 16 26 | | | | | | | ☐ | |
| 19 | 15 51 | 8 4 | 3 25 | 10 9 | 17 42 | | | | ☐ | | | | * |
| 20 | 15 56 | 8 10 | 4 21 | 11 19 | 18 56 | ☉ ☐ ☿ | | | | | Δ | | |
| 21 | 16 2 | 8 16 | 4 39 | 12 29 | 20 8 | | | | * | * | | * | |
| 22 | 16 7 | 8 22 | 5 16 | 13 38 | 21 18 | | ☐ | ☐ | | | | | |
| 23 | 16 13 | 8 28 | 5 53 | 14 48 | 22 25 | | | | | ☐ | ☐ | | |
| 24 | 16 18 | 8 34 | 6 30 | 15 58 | 23 29 | ☿ ☐ ♈ | | | | | | | |
| 25 | 16 24 | 8 40 | 7 7 | 17 7 | 24 30 | | | | | | | | ☐ |
| 26 | 16 30 | 8 46 | 7 44 | 18 17 | 25 26 | | | | ☐ | Δ | * | | |
| 27 | 16 36 | 8 51 | 8 21 | 19 26 | 26 17 | | | * | | | | ☐ | |
| 28 | 16 42 | 8 56 | 8 58 | 20 35 | 27 3 | ♈ ♈ ♈ | * | | | | | | ☐ |
| 29 | 16 48 | 9 1 | 9 36 | 21 44 | 27 44 | | | | | | | | * |
| 30 | 16 54 | 9 6 | 10 18 | 22 53 | 28 18 | | | ☐ | | | | | * |

DECEMBER XXXI DAYS.

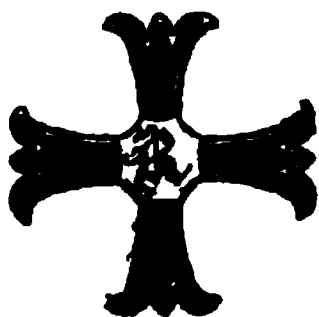
| D
M | Sun's
Semidia. | Herschel. | Saturn. | Jupiter | |
|--------|-------------------|-----------|---------|---------|---------|
| | | | | | |
| | | Lat. | Declin. | Lat. | Declin. |
| | | ° | ' | ° | ' |
| 1 | 16 16 | 0 N 11 | 19 S 45 | 0 N 4 | 22 S 19 |
| 4 | 16 16 | 0 11 | 19 48 | 0 4 | 22 17 |
| 7 | 16 16 | 0 11 | 19 50 | 0 3 | 22 15 |
| 10 | 16 16 | 0 11 | 19 53 | 0 3 | 22 13 |
| 13 | 16 16 | 0 11 | 19 55 | 0 3 | 22 10 |
| 16 | 16 16 | 0 11 | 19 57 | 0 3 | 22 8 |
| 19 | 16 17 | 0 11 | 19 59 | 0 3 | 22 5 |
| 22 | 16 17 | 0 11 | 20 0 | 0 3 | 22 3 |
| 25 | 16 17 | 0 11 | 20 2 | 0 3 | 22 0 |
| 28 | 16 17 | 0 11 | 20 5 | 0 2 | 21 57 |
| 31 | 16 17 | 0 11 | 20 7 | 0 2 | 21 53 |

| D
M | | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ♂
Lat. | ♂
Declin | ♀
Lat. |
|--------|----|-------------------|------------|-------------|------------|-----------|-------------|-----------|
| | | H. M. s. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | | 16 39 47 | 8 58 0 | 21 3 49 | 13 x 36 | 4 45 0 | 9 3 37 | 28 |
| 2 | | 16 43 44 | 9 58 54 | 21 58 26 | 46 | 4 9 5 | 6 6 | 28 |
| 3 | | 16 47 40 | 10 59 49 | 22 7 10 | r 34 | 4 45 0 | 11 | 28 |
| 4 | | 16 51 37 | 12 0 44 | 22 15 24 | 52 | 5 5 4 | N 56 | 29 |
| 5 | | 16 55 33 | 13 1 41 | 22 23 9 | x 37 | 5 5 9 | 58 | 29 |
| 6 | M | 16 59 30 | 14 2 38 | 22 30 24 | 44 | 4 44 14 | 22 | 29 |
| 7 | Tu | 17 3 26 | 15 3 36 | 22 37 10 | □ 2 | 4 3 17 | 58 | 29 |
| 8 | W | 17 7 23 | 16 4 35 | 22 44 25 | 21 | 3 3 20 | 18 | 29 |
| 9 | Th | 17 11 19 | 17 5 35 | 22 50 10 | 30 | 1 54 21 | 9 | 29 |
| 10 | F | 17 15 16 | 18 6 35 | 22 56 26 | 21 | 0 36 20 | 30 | 29 |
| 11 | S | 17 19 13 | 19 7 37 | 23 1 9 | 45 | 0 N 42 18 | 30 | 29 |
| 12 | S | 17 23 9 | 20 8 40 | 23 6 28 | 42 | 1 55 15 | 27 | 29 |
| 13 | M | 17 27 6 | 21 9 44 | 23 10 7 | 12 | 2 59 11 | 39 | 29 |
| 14 | Tu | 17 31 3 | 22 10 49 | 23 14 20 | 16 | 3 53 7 | 25 | 29 |
| 15 | W | 17 34 59 | 23 11 55 | 23 17 2 | 59 | 4 32 3 | 59 | 29 |
| 16 | Th | 17 38 55 | 24 13 2 | 23 20 15 | 23 | 4 58 1 | 3 | 29 |
| 17 | F | 17 42 52 | 25 14 10 | 23 23 27 | 34 | 5 10 5 | 48 | 29 |
| 18 | S | 17 46 48 | 26 15 18 | 23 25 9 | m 36 | 5 3 9 | 50 | 29 |
| 19 | S | 17 50 45 | 27 16 28 | 23 26 21 | 31 | 4 53 18 | 27 | 29 |
| 20 | M | 17 54 42 | 28 17 38 | 23 27 3 | 22 | 4 35 16 | 31 | 0 |
| 21 | Tu | 17 58 38 | 29 18 48 | 23 28 15 | 12 | 3 46 18 | 54 | 0 |
| 22 | W | 18 2 35 | 0 19 59 | 23 28 27 | 3 | 2 57 20 | 29 | 0 |
| 23 | Th | 18 6 31 | 1 21 10 | 23 27 8 | 57 | 2 0 21 | 10 | 0 |
| 24 | F | 18 10 28 | 2 22 22 | 23 26 30 | 54 | 0 57 20 | 54 | 0 |
| 25 | S | 18 14 24 | 3 23 34 | 23 25 2 | m 57 | 0 S 9 19 | 40 | 0 |
| 26 | S | 18 18 21 | 4 24 46 | 23 23 15 | 9 | 1 15 17 | 30 | 0 |
| 27 | M | 18 22 17 | 5 25 58 | 23 21 27 | 32 | 2 19 14 | 31 | 0 |
| 28 | Tu | 18 26 14 | 6 27 10 | 23 19 10 | x 9 | 3 18 10 | 49 | 0 |
| 29 | W | 18 30 11 | 7 28 21 | 23 16 23 | 4 | 4 6 6 | 33 | 0 |
| 30 | Th | 18 34 8 | 8 29 32 | 23 11 6 | r 20 | 4 46 1 | 52 | 0 |
| 31 | F | 18 38 5 | 9 30 43 | 23 7 19 | 58 | 5 9 3 | N 2 | 0 |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1814.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

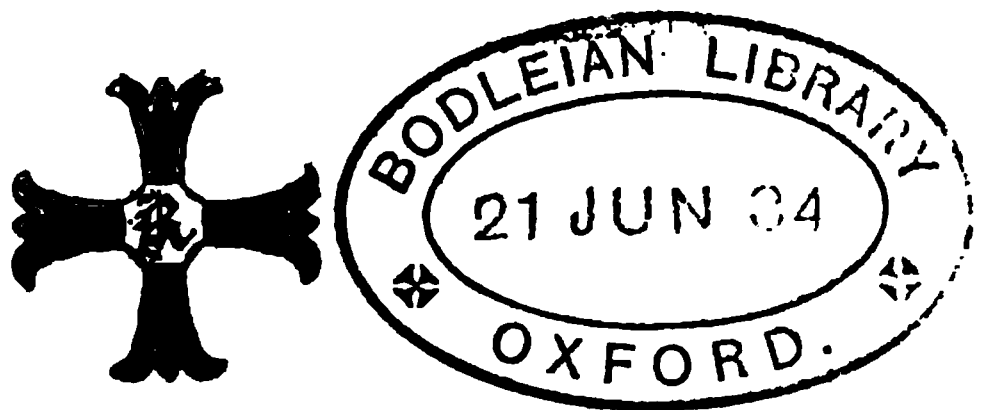
Price One Shilling.

(Ala.) 10/100

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1814.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR,
1888.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 11 | 20 8 8 | 0 N 2 | 21 50 | 1 N 10 | 8 N 53 |
| 4 | 16 | 15 | 0 11 | 20 10 | 0 2 | 21 50 | 1 11 | 8 56 |
| 7 | 16 | 16 | 0 11 | 20 12 | 0 1 | 21 47 | 1 12 | 8 58 |
| 10 | 16 | 16 | 0 11 | 20 14 | 0 1 | 21 44 | 1 12 | 9 2 |
| 13 | 16 | 17 | 0 11 | 20 15 | 0 1 | 21 40 | 1 13 | 9 6 |
| 16 | 16 | 17 | 0 11 | 20 17 | 0 1 | 21 37 | 1 14 | 9 11 |
| 19 | 16 | 17 | 0 11 | 20 18 | 0 0 | 21 34 | 1 15 | 9 17 |
| 22 | 16 | 18 | 0 11 | 20 19 | 0 0 | 21 30 | 1 15 | 9 23 |
| 25 | 16 | 18 | 0 11 | 20 20 | 0 0 | 21 27 | 1 16 | 9 29 |
| 28 | 16 | 18 | 0 11 | 20 22 | 0 0 | 21 24 | 1 17 | 9 36 |
| 31 | 16 | 18 | 0 11 | 20 24 | 0 0 | 21 20 | 1 17 | 9 45 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 08 13 | 0 N 11 | 18 5 | 13 S 17 | 1 N 59 | 20 S 55 | 2 Ω 27 |
| 4 | 0 9 | 1 1 | 1 47 | 11 54 | 1 33 | 21 36 | 2 17 |
| 7 | 0 5 | 1 53 | 0 31 | 10 39 | 1 6 | 22 14 | 2 8 |
| 10 | 0 2 | 2 43 | 0 10 | 9 19 | 0 40 | 22 47 | 1 58 |
| 13 | 0 N 2 | 3 34 | 0 N 10 | 7 57 | 0 15 | 23 12 | 1 49 |
| 16 | 0 6 | 4 24 | 0 32 | 6 42 | 08 9 | 23 28 | 1 39 |
| 19 | 0 9 | 5 14 | 0 57 | 5 16 | 0 32 | 23 35 | 1 30 |
| 22 | 0 12 | 6 4 | 1 24 | 4 0 | 0 52 | 23 30 | 1 20 |
| 25 | 0 15 | 6 53 | 1 50 | 2 38 | 1 10 | 23 14 | 1 11 |
| 28 | 0 18 | 7 40 | 2 20 | 1 25 | 1 27 | 22 46 | 1 1 |
| 31 | 0 21 | 8 38 | 2 54 | 0 10 | 1 40 | 22 5 | 0 52 |

| D
M | h | | ♄ | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 20 w 26 | 10 w 5 | 0 r 57 | 27 w 44 | 17 f 42 | ☉ Δ ♄ | Δ | | | | | Δ | | | | Δ | | |
| 2 | 20 33 | 10 R 4 | 1 36 | 28 45 | 18 40 | ♂ Δ ♄ | | | | | | | | Δ | | | | |
| 3 | 20 40 | 10 2 | 2 16 | 29 45 | 19 42 | | | | | | | | ♂ | | | □ | * | □ |
| 4 | 20 47 | 10 0 | 2 56 | 0 x 45 | 20 48 | ♀ □ ♄ | | | | | | | | | | | | ♂ |
| 5 | 20 55 | 9 58 | 3 36 | 1 44 | 21 56 | | | | | | | | | | | * | □ | Δ |
| 6 | 21 2 | 9 56 | 4 16 | 2 42 | 23 5 | | | | | | | ♂ | | ♂ | | | | |
| 7 | 21 9 | 9 54 | 4 56 | 3 39 | 24 16 | | | | | | | | Δ | | | | Δ | |
| 8 | 21 16 | 9 51 | 5 35 | 4 36 | 25 29 | | | | | | | | | | | | | |
| 9 | 21 23 | 9 49 | 6 15 | 5 33 | 26 44 | | | | | | | | □ | | | | ♂ | Δ |
| 10 | 21 30 | 9 46 | 6 55 | 6 29 | 28 2 | | | | | | | Δ | | Δ | ♂ | | | |
| 11 | 21 37 | 9 43 | 7 35 | 7 25 | 29 21 | | | | | | | | * | | | | | □ |
| 12 | 21 44 | 9 40 | 8 15 | 8 20 | 0 w 40 | ☉ ♂ h | | | | | | | | | | | ♂ | |
| 13 | 21 51 | 9 37 | 8 55 | 9 15 | 2 0 | ♀ ♂ ♄ | □ | | | | | | | □ | | * | | * |
| 14 | 21 58 | 9 33 | 9 35 | 10 9 | 3 22 | | | | | | | | | | | * | | Δ |
| 15 | 22 5 | 9 29 | 10 15 | 11 2 | 4 45 | | | | | | | | | | * | | | |
| 16 | 22 13 | 9 25 | 10 55 | 11 54 | 6 9 | | | | | | | * | ♂ | | | | | |
| 17 | 22 20 | 9 21 | 11 35 | 12 45 | 7 34 | | | | | | | | | | | □ | Δ | □ |
| 18 | 22 27 | 9 17 | 12 15 | 13 35 | 9 0 | ♀ Δ ♄ | | | | | | | | | | | | |
| 19 | 22 34 | 9 13 | 12 55 | 14 24 | 10 26 | | | | | | | | | | | Δ | | ♂ |
| 20 | 22 41 | 9 8 | 13 35 | 15 12 | 11 53 | | | | | | | | | ♂ | | | □ | * |
| 21 | 22 48 | 9 3 | 14 15 | 16 0 | 13 21 | | | | | | | ♂ | * | | | | | |
| 22 | 22 55 | 8 58 | 14 55 | 16 47 | 14 50 | ☉ * ♄ | | | | | | | | | | | * | |
| 23 | 23 2 | 8 53 | 15 35 | 17 34 | 16 19 | ♀ □ ♂ | | | | | | | | | | | | |
| 24 | 23 9 | 8 48 | 16 15 | 18 20 | 17 49 | | | | | | | | □ | | ♂ | | | |
| 25 | 23 16 | 8 43 | 16 55 | 19 5 | 19 20 | ♀ * ♀ | | | | | | | | * | | | ♂ | * |
| 26 | 23 23 | 8 37 | 17 35 | 19 49 | 20 52 | | | | | | | * | Δ | | | | | |
| 27 | 23 30 | 8 31 | 18 15 | 20 32 | 22 24 | | | | | | | | | | □ | | ♂ | □ |
| 28 | 23 37 | 8 25 | 18 55 | 21 13 | 23 57 | ♀ ♂ h | | | | | | | | | | | | |
| 29 | 23 44 | 8 19 | 19 35 | 21 53 | 25 30 | | | | | | | □ | | | | Δ | | |
| 30 | 23 51 | 8 13 | 20 15 | 22 31 | 27 4 | | | | | | | | ♂ | | | | * | Δ |
| 31 | 23 58 | 8 7 | 20 55 | 23 7 | 28 39 | | | | | | | Δ | | | | □ | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 11 | 20 S 24 | 0 S 1 | 21 S 19 | 1 N 18 | 9 N 47 |
| 4 | 16 | 15 | 0 11 | 20 26 | 0 1 | 21 16 | 1 18 | 9 55 |
| 7 | 16 | 14 | 0 11 | 20 27 | 0 1 | 21 18 | 1 19 | 10 3 |
| 10 | 16 | 14 | 0 11 | 20 27 | 0 1 | 21 10 | 1 19 | 10 11 |
| 13 | 16 | 13 | 0 11 | 20 27 | 0 2 | 21 6 | 1 20 | 10 20 |
| 16 | 16 | 12 | 0 11 | 20 28 | 0 2 | 21 8 | 1 20 | 10 29 |
| 19 | 16 | 11 | 0 11 | 20 29 | 0 2 | 20 59 | 1 20 | 10 38 |
| 22 | 16 | 11 | 0 11 | 20 29 | 0 2 | 20 56 | 1 20 | 10 47 |
| 25 | 16 | 10 | 0 11 | 20 30 | 0 2 | 20 53 | 1 21 | 10 55 |
| 28 | 16 | 10 | 0 11 | 20 30 | 0 2 | 20 50 | 1 21 | 11 4 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 20 44 15 | 12 ^m 5 7 | 17 S 11 | 27 ^h 24 | 2 S 57 | 20 N 29 | 1 ^h 54 |
| 2 | W | 20 48 12 | 13 5 57 | 16 54 | 12 ^h 5 | 1 44 | 21 11 | 1 58 |
| 3 | Th | 20 52 9 | 14 6 45 | 16 37 | 26 46 | 0 25 | 20 25 | 2 0 |
| 4 | F | 20 56 6 | 15 7 32 | 16 19 | 11 ^h 20 | 0 N 56 | 18 17 | 2 1 |
| 5 | S | 21 0 8 | 16 8 17 | 16 1 | 25 42 | 2 11 | 15 2 | 2 4 |
| 6 | S | 21 4 0 | 17 9 2 | 15 43 | 9 ^m 46 | 3 17 | 10 58 | 2 6 |
| 7 | M | 21 7 57 | 18 9 45 | 15 24 | 23 28 | 4 10 | 6 26 | 2 7 |
| 8 | Tu | 21 11 53 | 19 10 27 | 15 5 | 6 ^h 46 | 4 58 | 1 43 | 2 9 |
| 9 | W | 21 15 49 | 20 11 8 | 14 46 | 19 41 | 5 10 | 2 S 56 | 2 10 |
| 10 | Th | 21 19 46 | 21 11 47 | 14 27 | 2 ^m 14 | 5 16 | 7 19 | 2 11 |
| 11 | F | 21 23 43 | 22 12 36 | 14 7 | 14 30 | 5 7 | 11 19 | 2 12 |
| 12 | S | 21 27 39 | 23 13 3 | 13 48 | 26 32 | 4 45 | 14 46 | 2 13 |
| 13 | S | 21 31 36 | 24 13 39 | 13 28 | 8 ^h 25 | 4 11 | 17 36 | 2 14 |
| 14 | M | 21 35 32 | 25 14 14 | 13 7 | 20 14 | 3 27 | 19 40 | 2 15 |
| 15 | Tu | 21 39 29 | 26 14 48 | 12 47 | 2 ^h 4 | 2 33 | 20 53 | 2 16 |
| 16 | W | 21 43 25 | 27 15 20 | 12 26 | 14 0 | 1 33 | 21 11 | 2 17 |
| 17 | Th | 21 47 22 | 28 15 51 | 12 5 | 26 5 | 0 28 | 20 30 | 2 18 |
| 18 | F | 21 51 18 | 29 16 20 | 11 44 | 8 ^m 22 | 0 S 40 | 18 50 | 2 19 |
| 19 | S | 21 55 15 | 0 ^x 16 49 | 11 23 | 20 53 | 1 46 | 16 13 | 2 20 |
| 20 | S | 21 59 12 | 1 17 15 | 11 2 | 3 ^x 40 | 2 49 | 12 47 | 2 21 |
| 21 | M | 22 3 8 | 2 17 40 | 10 40 | 16 43 | 3 44 | 8 41 | 2 22 |
| 22 | Tu | 22 7 5 | 3 18 2 | 10 18 | 0 ^r 1 | 4 28 | 4 5 | 2 23 |
| 23 | W | 22 11 1 | 4 18 23 | 9 56 | 13 32 | 4 58 | 0 N 46 | 2 24 |
| 24 | Th | 22 14 58 | 5 18 43 | 9 34 | 27 14 | 5 11 | 5 39 | 2 25 |
| 25 | F | 22 18 54 | 6 19 0 | 9 12 | 11 ^h 8 | 5 7 | 10 19 | 2 26 |
| 26 | S | 22 22 51 | 7 19 14 | 8 50 | 25 5 | 4 44 | 14 28 | 2 26 |
| 27 | S | 22 26 47 | 8 19 27 | 8 27 | 9 ^h 11 | 4 4 | 17 50 | 2 27 |
| 28 | M | 22 30 44 | 9 19 38 | 8 5 | 23 20 | 3 9 | 20 9 | 2 27 |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 11 | 20 00 | 0 S 3 | 20 40 | 1 N 21 | 11 N 7 |
| 4 | 16 | 9 | 0 11 | 20 30 | 0 3 | 20 45 | 1 21 | 11 16 |
| 7 | 16 | 8 | 0 11 | 20 30 | 0 3 | 20 43 | 1 21 | 11 25 |
| 10 | 16 | 8 | 0 11 | 20 30 | 0 3 | 20 39 | 1 21 | 11 32 |
| 13 | 16 | 7 | 0 11 | 20 30 | 0 4 | 20 36 | 1 22 | 11 40 |
| 16 | 16 | 6 | 0 11 | 20 30 | 0 4 | 20 34 | 1 22 | 11 47 |
| 19 | 16 | 5 | 0 11 | 20 29 | 0 4 | 20 31 | 1 21 | 11 54 |
| 22 | 16 | 4 | 0 11 | 20 29 | 0 4 | 20 29 | 1 21 | 12 1 |
| 25 | 16 | 3 | 0 11 | 20 29 | 0 5 | 20 26 | 1 21 | 12 7 |
| 28 | 16 | 3 | 0 11 | 20 28 | 0 5 | 20 24 | 1 21 | 12 13 |
| 31 | 16 | 2 | 0 11 | 20 28 | 0 5 | 20 21 | 1 21 | 12 18 |

27
 27
 27
 28
 28
 28
 28
 28
 27
 27
 27
 27
 27
 26
 26
 26
 26
 25
 25
 25
 24
 24
 24
 23
 23
 23
 22
 22
 21
 20
 19
 18
 17
 16
 15
 14

1

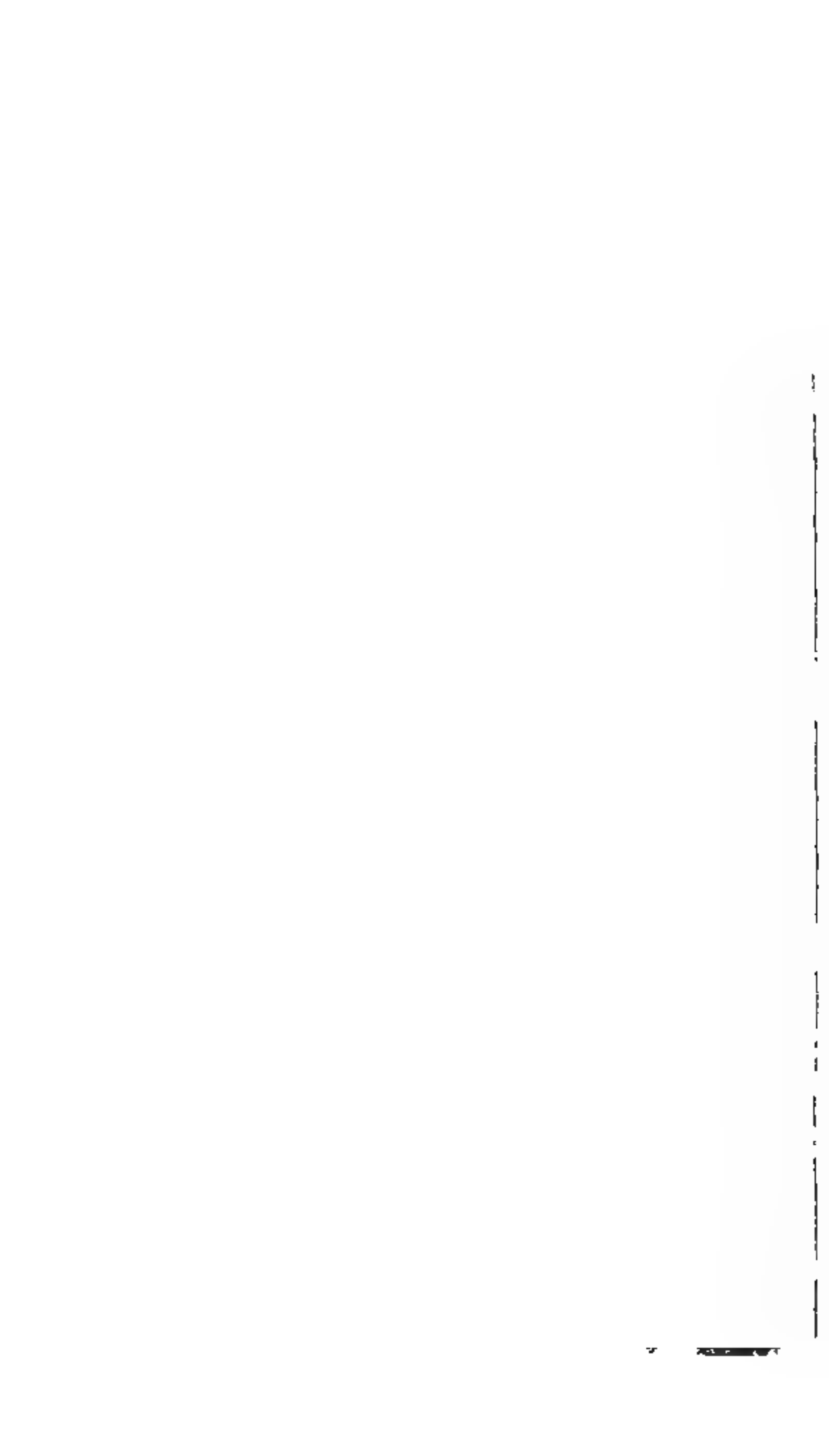
1

| 8 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1814. | |
|-----------------|-------------------|-----------------------------------|-----------|------------|-------------|------------|-----------|-------------|------------|---------|--------|--------|--|
| APRIL XXX DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | |
| 1 | 16 | 1 | 0 N 11 | 20 S 27 | 0 S 5 | 20 S 21 | 1 N 20 | 12 N 19 | | | | | |
| 4 | 16 | 0 | 0 11 | 20 26 | 0 5 | 20 19 | 1 20 | 12 23 | | | | | |
| 7 | 15 | 59 | 0 11 | 20 25 | 0 6 | 20 17 | 1 19 | 12 27 | | | | | |
| 10 | 15 | 58 | 0 11 | 20 24 | 0 6 | 20 15 | 1 19 | 12 30 | | | | | |
| 13 | 15 | 58 | 0 11 | 20 23 | 0 6 | 20 14 | 1 18 | 12 33 | | | | | |
| 16 | 15 | 57 | 0 11 | 20 22 | 0 6 | 20 12 | 1 18 | 12 35 | | | | | |
| 19 | 15 | 56 | 0 11 | 20 21 | 0 7 | 20 11 | 1 17 | 12 36 | | | | | |
| 22 | 15 | 56 | 0 11 | 20 20 | 0 7 | 20 11 | 1 17 | 12 37 | | | | | |
| 25 | 15 | 55 | 0 11 | 20 19 | 0 7 | 20 10 | 1 17 | 12 37 | | | | | |
| 28 | 15 | 54 | 0 11 | 20 17 | 0 7 | 20 9 | 1 17 | 12 36 | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. | | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | " | |
| 1 | F | 0 | 36 | 54 | 11 | 7 | 8 | 4 N 25 | 29 24 46 | 2 N 37 | 14 N 1 | 2 12 | |
| 2 | S | 0 | 40 | 50 | 12 | 7 | 10 | 4 48 | 18 18 | 3 38 | 9 51 | 2 11 | |
| 3 | S | 0 | 44 | 47 | 13 | 6 | 12 | 5 11 | 26 40 | 4 17 | 5 15 | 2 9 | |
| 4 | M | 0 | 48 | 43 | 14 | 5 | 12 | 5 34 | 9 50 | 4 46 | 0 29 | 2 7 | |
| 5 | Tu | 0 | 52 | 40 | 15 | 4 | 9 | 5 56 | 22 46 | 5 0 | 4 S 13 | 2 6 | |
| 6 | W | 0 | 56 | 36 | 16 | 3 | 4 | 6 19 | 5 28 | 4 58 | 8 40 | 2 4 | |
| 7 | Th | 1 | 0 | 38 | 17 | 1 | 57 | 6 42 | 17 55 | 4 42 | 12 40 | 2 2 | |
| 8 | F | 1 | 4 | 29 | 18 | 0 | 49 | 7 4 | 0 7 8 | 4 14 | 16 4 | 2 1 | |
| 9 | S | 1 | 8 | 26 | 18 | 59 | 39 | 7 27 | 12 9 | 3 34 | 18 44 | 2 0 | |
| 10 | S | 1 | 12 | 23 | 19 | 58 | 27 | 7 49 | 24 2 | 2 46 | 20 34 | 1 59 | |
| 11 | M | 1 | 16 | 19 | 20 | 57 | 13 | 8 11 | 5 50 | 1 50 | 21 30 | 1 57 | |
| 12 | Tu | 1 | 20 | 16 | 21 | 55 | 58 | 8 33 | 17 40 | 0 50 | 21 28 | 1 55 | |
| 13 | W | 1 | 24 | 12 | 22 | 54 | 41 | 8 55 | 29 36 | 0 S 18 | 20 28 | 1 54 | |
| 14 | Th | 1 | 28 | 9 | 23 | 53 | 23 | 9 17 | 11 43 | 1 17 | 18 31 | 1 52 | |
| 15 | F | 1 | 32 | 5 | 24 | 52 | 2 | 9 38 | 24 8 | 2 18 | 15 40 | 1 50 | |
| 16 | S | 1 | 36 | 2 | 25 | 50 | 40 | 10 0 | 6 54 | 3 14 | 12 0 | 1 49 | |
| 17 | S | 1 | 39 | 58 | 26 | 49 | 17 | 10 21 | 20 4 | 4 2 | 7 38 | 1 47 | |
| 18 | M | 1 | 43 | 55 | 27 | 47 | 51 | 10 42 | 3 41 | 4 37 | 2 46 | 1 45 | |
| 19 | Tu | 1 | 47 | 52 | 28 | 46 | 24 | 11 3 | 17 41 | 4 57 | 2 N 22 | 1 43 | |
| 20 | W | 1 | 51 | 48 | 29 | 44 | 55 | 11 24 | 2 8 2 | 4 54 | 7 31 | 1 41 | |
| 21 | Th | 1 | 55 | 45 | 30 | 43 | 24 | 11 44 | 16 38 | 4 42 | 12 19 | 1 39 | |
| 22 | F | 1 | 59 | 41 | 31 | 41 | 52 | 12 5 | 1 20 | 4 6 | 16 26 | 1 37 | |
| 23 | S | 2 | 3 | 36 | 32 | 40 | 18 | 12 25 | 16 1 | 3 14 | 19 31 | 1 35 | |
| 24 | S | 2 | 7 | 34 | 33 | 38 | 41 | 12 45 | 0 34 | 2 9 | 21 19 | 1 33 | |
| 25 | M | 2 | 11 | 31 | 34 | 37 | 2 | 13 4 | 14 50 | 0 57 | 21 41 | 1 31 | |
| 26 | Tu | 2 | 15 | 27 | 35 | 35 | 20 | 13 24 | 29 3 | 0 N 18 | 20 39 | 1 29 | |
| 27 | W | 2 | 19 | 23 | 36 | 33 | 37 | 13 48 | 12 56 | 1 30 | 18 28 | 1 27 | |
| 28 | Th | 2 | 23 | 19 | 37 | 31 | 52 | 14 2 | 26 34 | 2 36 | 15 6 | 1 25 | |
| 29 | F | 2 | 27 | 15 | 38 | 30 | 4 | 14 21 | 9 54 | 3 32 | 11 6 | 1 23 | |
| 30 | S | 2 | 31 | 11 | 39 | 28 | 15 | 14 40 | 23 11 | 4 15 | 6 37 | 1 20 | |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 57 | 21 N 15 | 5 N 42 | 1 S 19 | 2 N 55 | 7 N 54 | 27 41 |
| 4 | 0 58 | 21 40 | 5 7 | 1 49 | 2 19 | 6 25 | 27 31 |
| 7 | 0 59 | 22 4 | 4 25 | 2 19 | 1 34 | 4 50 | 27 22 |
| 10 | 1 0 | 22 26 | 3 51 | 2 35 | 0 45 | 3 23 | 27 12 |
| 13 | 1 1 | 22 46 | 3 12 | 2 45 | 0 S 3 | 2 12 | 27 8 |
| 16 | 1 2 | 23 4 | 2 42 | 2 44 | 0 48 | 1 23 | 26 53 |
| 19 | 1 3 | 23 21 | 2 6 | 2 41 | 1 27 | 0 57 | 26 44 |
| 22 | 1 3 | 23 36 | 1 37 | 2 30 | 1 59 | 0 54 | 26 34 |
| 25 | 1 4 | 23 50 | 1 7 | 2 9 | 2 25 | 1 13 | 26 25 |
| 28 | 1 5 | 24 3 | 0 27 | 1 36 | 2 44 | 1 50 | 26 15 |

| D
M | h
Long. | ♄
Long. | ♂
Long. | ♀
Long. | ♊
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|---|
| | | | | | | | ☉ | ☿ | ♈ | ♊ | ♋ | ♌ | ♍ | ♎ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | | |
| 1 | 29 W 34 | 1 M 9 | 0 □ 45 | 13 × 18 | 13 r 13 | ♂ □ ♀ | | | | | ♈ | □ | | |
| 2 | 29 37 | 1 R 5 | 1 25 | 13 R 16 | 12 R 28 | ☉ ♂ ♀ | | □ | | | | | ♌ | |
| 3 | 29 41 | 1 1 | 2 4 | 13 D 16 | 11 40 | ♂ ♀ ☿ | | | Δ | | | Δ | | |
| 4 | 29 44 | 0 57 | 2 43 | 13 19 | 10 50 | | ♌ | * | | | | | | ♌ |
| 5 | 29 46 | 0 53 | 3 22 | 13 25 | 10 2 | | | | | | | | | |
| 6 | 29 51 | 0 49 | 4 1 | 13 84 | 9 17 | | | | □ | * | | | | |
| 7 | 29 54 | 0 45 | 4 40 | 13 47 | 8 34 | | | | | * | | | Δ | |
| 8 | 29 57 | 0 42 | 5 20 | 14 2 | 7 54 | | | ♈ | * | □ | ♌ | | | |
| 9 | 0 M 0 | 0 38 | 5 59 | 14 18 | 7 18 | | | | | | | □ | Δ | |
| 10 | 0 3 | 0 35 | 6 38 | 14 35 | 6 46 | ♀ * ♂ | Δ | | | | | | | |
| 11 | 0 6 | 0 32 | 7 17 | 14 53 | 6 19 | | | | | | Δ | | | □ |
| 12 | 0 9 | 0 29 | 7 56 | 15 12 | 5 57 | | □ | * | | ♈ | | | * | |
| 13 | 0 12 | 0 26 | 8 35 | 15 32 | 5 39 | | | * | ♈ | | | | | * |
| 14 | 0 14 | 0 24 | 9 14 | 15 55 | 5 26 | | | | | | | Δ | | |
| 15 | 0 17 | 0 22 | 9 53 | 16 20 | 5 D 19 | | * | | | | | | | |
| 16 | 0 19 | 0 20 | 10 32 | 16 47 | 5 19 | | | | □ | | ♌ | □ | ♈ | |
| 17 | 0 22 | 0 18 | 11 11 | 17 16 | 5 28 | | | | | | | | ♈ | |
| 18 | 0 24 | 0 16 | 11 50 | 17 48 | 5 31 | | | Δ | * | | | | | ♈ |
| 19 | 0 26 | 0 14 | 12 29 | 18 22 | 5 44 | | | | | | | * | | |
| 20 | 0 28 | 0 13 | 13 8 | 18 57 | 6 2 | ☉ Δ ♀ | ♈ | | □ | Δ | | | | |
| 21 | 0 30 | 0 12 | 13 47 | 19 32 | 6 25 | ☉ □ ♈ | | | | | | | * | * |
| 22 | 0 31 | 0 11 | 14 26 | 20 8 | 6 52 | | | | ♌ | Δ | □ | ♈ | | * |
| 23 | 0 33 | 0 10 | 15 5 | 20 45 | 7 23 | | | | | | | ♈ | □ | |
| 24 | 0 35 | 0 9 | 15 44 | 21 22 | 7 58 | | * | | | * | | | | |
| 25 | 0 36 | 0 9 | 16 23 | 22 0 | 8 38 | | | | | | | | | □ |
| 26 | 0 38 | 0 8 | 17 2 | 22 40 | 9 22 | | | | Δ | ♌ | | | Δ | |
| 27 | 0 39 | 0 D 8 | 17 41 | 23 21 | 10 9 | | □ | | | | | * | | Δ |
| 28 | 0 40 | 0 8 | 18 20 | 24 4 | 10 59 | | | □ | | | ♈ | | | |
| 29 | 0 42 | 0 9 | 18 59 | 24 48 | 11 52 | | Δ | | | | | | | |
| 30 | 0 43 | 0 10 | 19 38 | 25 33 | 12 48 | | | | | | | □ | ♌ | |



1094

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| 1 | 15 | 48 | 0 N 10 | 20 S 1 | 0 S 11 | 20 N 15 | 1 N 10 | 11 N 53 |
| 2 | 15 | 48 | 0 10 | 19 59 | 0 11 | 20 17 | 1 10 | 11 46 |
| 7 | 15 | 47 | 0 10 | 19 57 | 0 12 | 20 19 | 1 10 | 11 38 |
| 10 | 15 | 47 | 0 10 | 19 56 | 0 12 | 20 21 | 1 10 | 11 30 |
| 13 | 15 | 46 | 0 10 | 19 54 | 0 12 | 20 23 | 1 9 | 11 21 |
| 16 | 15 | 46 | 0 10 | 19 53 | 0 12 | 20 25 | 1 9 | 11 12 |
| 19 | 15 | 46 | 0 10 | 19 52 | 0 12 | 20 27 | 1 8 | 11 4 |
| 22 | 15 | 46 | 0 10 | 19 51 | 0 12 | 20 29 | 1 8 | 10 54 |
| 25 | 15 | 46 | 0 10 | 19 49 | 0 12 | 20 32 | 1 7 | 10 44 |
| 28 | 15 | 45 | 0 10 | 19 48 | 0 12 | 20 35 | 1 7 | 10 34 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 4 37 20 | 10 17 11 | 13 N 1 | 23 7 | 4 N 27 | 14 8 16 | 0 1 2 |
| 2 | Th | 4 41 17 | 11 14 36 | 22 9 | 5 10 | 3 49 | 17 26 | 0 1 0 |
| 3 | F | 4 45 13 | 12 12 1 | 22 17 | 17 6 | 3 119 | 51 | 29 58 |
| 4 | S | 4 49 10 | 13 9 24 | 22 24 | 29 58 | 2 521 | 22 | 29 56 |
| 5 | ■ | 4 53 6 | 14 6 47 | 22 31 | 10 46 | 1 421 | 58 | 29 53 |
| 6 | M | 4 57 3 15 | 4 9 22 | 22 38 | 22 34 | 0 8 | 0 21 35 | 29 50 |
| 7 | Tu | 5 0 59 16 | 1 30 22 | 44 4 | 24 | 1 520 | 14 | 29 49 |
| 8 | W | 5 4 56 16 | 58 51 22 | 49 16 | 21 | 2 717 | 58 | 29 47 |
| 9 | Th | 5 8 52 17 | 56 11 22 | 55 28 | 29 | 3 414 | 58 | 29 44 |
| 10 | F | 5 12 49 18 | 53 31 22 | 0 10 52 | 2 | 54 11 | 6 | 29 41 |
| 11 | S | 5 16 46 19 | 50 51 22 | 5 23 35 | 4 | 34 6 | 45 | 29 38 |
| 12 | S | 5 20 42 20 | 46 10 22 | 9 6 42 | 5 | 2 1 | 57 | 29 35 |
| 13 | M | 5 24 39 21 | 45 29 22 | 12 20 16 | 5 | 13 3 N | 6 | 29 33 |
| 14 | Tu | 5 28 35 22 | 42 48 22 | 16 4 18 | 5 | 7 8 | 9 | 29 30 |
| 15 | W | 5 32 32 22 | 40 7 22 | 19 18 47 | 4 | 41 12 | 55 | 29 27 |
| 16 | Th | 5 36 29 24 | 37 25 22 | 21 3 13 | 3 | 56 17 | 2 | 29 24 |
| 17 | F | 5 40 25 25 | 34 42 22 | 23 18 44 | 2 | 54 20 | 6 | 29 21 |
| 18 | S | 5 44 21 26 | 32 0 22 | 25 3 56 | 1 | 39 21 | 45 | 29 20 |
| 19 | S | 5 48 18 27 | 29 17 22 | 26 19 4 | 0 | 17 21 | 49 | 29 18 |
| 20 | M | 5 52 15 28 | 26 33 22 | 27 4 2 0 | 1 N | 4 20 | 19 | 29 17 |
| 21 | Tu | 5 56 11 29 | 23 49 22 | 28 18 36 | 2 | 20 17 | 29 | 29 16 |
| 22 | W | 6 0 8 | 0 21 4 22 | 28 2 48 | 3 | 25 13 | 41 | 29 15 |
| 23 | Th | 6 4 4 | 1 18 18 22 | 27 16 35 | 4 | 17 9 | 14 | 29 13 |
| 24 | F | 6 8 1 | 2 15 32 22 | 27 29 57 | 4 | 62 4 | 29 | 29 11 |
| 25 | S | 6 11 57 | 3 12 45 22 | 25 12 57 | 5 | 13 0 8 20 | 29 | 9 |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 10 | 19 S 47 | 0 S 14 | 20 S 38 | 1 N 6 | 10 N 23 |
| 4 | 15 | 45 | 0 10 | 19 46 | 0 14 | 20 41 | 1 6 | 10 12 |
| 7 | 15 | 45 | 0 10 | 19 45 | 0 15 | 20 44 | 1 6 | 10 1 |
| 10 | 15 | 46 | 0 10 | 19 44 | 0 15 | 20 46 | 1 6 | 9 49 |
| 13 | 15 | 46 | 0 10 | 19 44 | 0 15 | 20 49 | 1 5 | 9 37 |
| 16 | 15 | 46 | 0 10 | 19 43 | 0 15 | 20 52 | 1 5 | 9 25 |
| 19 | 15 | 46 | 0 10 | 19 43 | 0 16 | 20 55 | 1 5 | 9 12 |
| 22 | 15 | 46 | 0 10 | 19 42 | 0 16 | 20 58 | 1 5 | 8 59 |
| 25 | 15 | 47 | 0 10 | 19 42 | 0 16 | 21 1 | 1 4 | 8 46 |
| 28 | 15 | 47 | 0 10 | 19 41 | 0 16 | 21 4 | 1 4 | 8 32 |
| 31 | 15 | 47 | 0 10 | 19 41 | 0 17 | 21 7 | 1 4 | 8 18 |

| D
M | D
W | Siderea ^l
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------------------|-----------------------|-------------|--------------------|-----------|-------------|--------------------|
| | | H. M. S. | ° / ' " | ° / ' " | ° / ' " | ° / ' " | ° / ' " | ° / ' " |
| 1 | F | 6 35 37 | 8 ⁵⁵ 55 55 | 23 N 10 | 26 † 1 | 2 N 20 | 21 S 5 | 28 ^m 58 |
| 2 | S | 6 39 33 | 9 53 6 | 23 6 | 7 ^w 49 | 1 18 | 21 56 | 28 ^R 56 |
| 3 | S | 6 43 30 | 10 50 17 | 23 1 | 19 88 | 0 14 | 21 48 | 28 55 |
| 4 | M | 6 47 26 | 11 47 28 | 22 56 | 1 ^m 29 | 0 S 52 | 20 42 | 28 53 |
| 5 | Tu | 6 51 23 | 12 44 39 | 22 51 | 18 25 | 1 56 | 18 39 | 28 52 |
| 6 | W | 6 55 19 | 13 41 50 | 22 45 | 25 19 | 2 55 | 15 47 | 28 50 |
| 7 | Th | 6 59 16 | 14 39 2 | 22 39 | 7 ^x 43 | 3 47 | 12 12 | 28 49 |
| 8 | F | 7 3 18 | 15 36 14 | 22 33 | 20 11 | 4 30 | 8 1 | 28 47 |
| 9 | S | 7 7 9 | 16 33 26 | 22 26 | 2 ^r 56 | 5 0 | 3 25 | 28 46 |
| 10 | S | 7 11 6 | 17 30 40 | 22 19 | 16 1 | 5 16 | 1 N 27 | 28 44 |
| 11 | M | 7 15 8 | 18 27 53 | 22 11 | 29 30 | 5 15 | 6 23 | 28 43 |
| 12 | Tu | 7 18 59 | 19 25 7 | 22 8 | 18 ^o 22 | 4 56 | 11 9 | 28 42 |
| 13 | W | 7 22 55 | 20 22 22 | 21 55 | 27 39 | 4 19 | 15 27 | 28 41 |
| 14 | Th | 7 26 53 | 21 19 38 | 21 46 | 12 ^π 18 | 3 24 | 18 55 | 28 40 |
| 15 | F | 7 30 48 | 22 16 54 | 21 37 | 27 14 | 2 14 | 21 12 | 28 38 |
| 16 | S | 7 34 45 | 23 14 11 | 21 28 | 12 ⁵ 21 | 0 54 | 21 59 | 28 37 |
| 17 | S | 7 38 42 | 24 11 28 | 21 18 | 27 28 | 0 N 30 | 21 10 | 28 36 |
| 18 | M | 7 42 38 | 25 8 46 | 21 8 | 12 ^Ω 28 | 1 51 | 18 51 | 28 35 |
| 19 | Tu | 7 46 35 | 26 6 4 | 20 57 | 27 12 | 3 3 | 15 19 | 28 34 |
| 20 | W | 7 50 32 | 27 3 23 | 20 46 | 11 ^m 34 | 4 2 | 10 57 | 28 33 |
| 21 | Th | 7 54 28 | 28 0 41 | 20 35 | 25 30 | 4 44 | 6 8 | 28 32 |
| 22 | F | 7 58 24 | 28 58 0 | 20 23 | 8 ^Δ 59 | 5 9 | 1 11 | 28 31 |
| 23 | S | 8 2 21 | 29 55 20 | 20 11 | 22 2 | 5 18 | 3 8 | 28 30 |
| 24 | S | 8 6 17 | 0 ^Ω 52 39 | 19 59 | 4 ^m 43 | 5 10 | 8 14 | 28 29 |
| 25 | M | 8 10 14 | 1 49 59 | 19 46 | 17 5 | 4 48 | 12 21 | 28 28 |
| 26 | Tu | 8 14 11 | 2 47 20 | 19 33 | 29 13 | 4 14 | 15 52 | 28 27 |
| 27 | W | 8 18 7 | 3 44 41 | 19 20 | 11 [†] 9 | 3 29 | 18 42 | 28 27 |
| 28 | Th | 8 22 4 | 4 42 2 | 19 6 | 23 0 | 2 35 | 20 42 | 28 26 |
| 29 | F | 8 26 0 | 5 39 24 | 18 53 | 4 ^w 48 | 1 35 | 21 48 | 28 26 |
| 30 | S | 8 29 57 | 6 36 47 | 18 38 | 16 36 | 0 31 | 21 55 | 28 26 |
| 31 | S | 8 33 53 | 7 34 10 | 18 24 | 28 28 | 0 S 35 | 21 3 | 28 25 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 11 | 21 N 29 | 2 S 25 | 17 N 11 | 1 N 19 | 20 N 54 | 22 52 |
| 4 | 1 11 | 21 3 | 2 21 | 18 0 | 0 56 | 19 31 | 22 42 |
| 7 | 1 11 | 20 38 | 2 16 | 18 44 | 0 28 | 18 5 | 22 33 |
| 10 | 1 11 | 20 18 | 2 10 | 19 24 | 0 S 3 | 16 37 | 22 23 |
| 13 | 1 11 | 19 42 | 2 4 | 20 2 | 0 37 | 15 10 | 22 14 |
| 16 | 1 10 | 19 12 | 2 3 | 20 33 | 1 14 | 13 48 | 22 4 |
| 19 | 1 10 | 18 42 | 1 49 | 21 4 | 1 54 | 12 32 | 21 55 |
| 22 | 1 10 | 18 10 | 1 41 | 21 29 | 2 34 | 11 27 | 21 45 |
| 25 | 1 10 | 17 37 | 1 33 | 21 48 | 3 14 | 10 35 | 21 36 |
| 28 | 1 9 | 17 5 | 1 24 | 22 0 | 3 50 | 9 59 | 21 26 |
| 31 | 1 9 | 16 30 | 1 15 | 22 12 | 4 22 | 9 44 | 21 17 |

| D
M | h | ♄ | ♂ | ♀ | ♅ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♊ | ♍ | ♏ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 28 w 53 | 5 w 55 | 29 17 | 27 8 9 | 2 29 | | | | | | | | |
| 2 | 28 R 49 | 6 4 | 29 55 | 28 16 | 3 57 | ♀ ♂ ♄ | ♂ | | | Δ | | | |
| 3 | 28 45 | 6 14 | 0 23 | 29 23 | 5 21 | ♀ * ♈ | | | | | | | |
| 4 | 28 41 | 6 23 | 1 11 | 0 30 | 6 41 | | | * | ♈ | | ♊ | Δ | ♊ |
| 5 | 28 36 | 6 33 | 1 49 | 1 38 | 7 59 | | | | | | | | |
| 6 | 28 32 | 6 43 | 2 27 | 2 46 | 9 16 | | | □ | | | | | |
| 7 | 28 28 | 6 53 | 3 5 | 3 54 | 10 31 | | | | | ♊ | | □ | |
| 8 | 28 24 | 7 3 | 3 43 | 5 2 | 11 43 | | Δ | | | | | | |
| 9 | 28 19 | 7 13 | 4 21 | 6 10 | 12 52 | | | Δ | * | | Δ | * | |
| 10 | 28 15 | 7 24 | 4 59 | 7 19 | 13 57 | ♀ □ ♄ | □ | | | | | | Δ |
| 11 | 28 11 | 7 34 | 5 37 | 8 27 | 15 0 | | | | □ | | □ | | |
| 12 | 28 7 | 7 44 | 6 15 | 9 35 | 16 0 | | * | | | Δ | | | □ |
| 13 | 28 2 | 7 55 | 6 53 | 10 44 | 16 58 | | | ♊ | Δ | | | | |
| 14 | 27 58 | 8 5 | 7 32 | 11 52 | 17 53 | | | | | □ | * | ♈ | * |
| 15 | 27 53 | 8 16 | 8 10 | 13 1 | 18 44 | | | | | | | | |
| 16 | 27 49 | 8 27 | 8 48 | 14 10 | 19 30 | | | | | * | | | |
| 17 | 27 44 | 8 38 | 9 26 | 15 19 | 20 13 | | ♈ | Δ | ♊ | | | | |
| 18 | 27 40 | 8 49 | 10 4 | 16 28 | 20 54 | | | | | | ♈ | * | |
| 19 | 27 35 | 9 0 | 10 42 | 17 37 | 21 33 | | | □ | | | | | ♈ |
| 20 | 27 31 | 9 11 | 11 21 | 18 46 | 22 7 | ☉ ♂ ♈ | | | | ♈ | | | |
| 21 | 27 26 | 9 22 | 11 59 | 19 56 | 22 86 | | * | * | Δ | | | □ | |
| 22 | 27 22 | 9 33 | 12 37 | 21 5 | 22 59 | ☉ Δ ♄ | | | | | * | | |
| 23 | 27 17 | 9 44 | 13 15 | 22 15 | 23 18 | | | | □ | * | | Δ | * |
| 24 | 27 13 | 9 55 | 13 52 | 23 24 | 23 33 | ♀ * ♀ | □ | | | * | | | |
| 25 | 27 8 | 10 7 | 14 30 | 24 34 | 23 44 | | | | | | □ | | |
| 26 | 27 4 | 10 18 | 15 8 | 25 44 | 23 50 | | Δ | ♈ | * | | | | □ |
| 27 | 27 0 | 10 30 | 15 46 | 26 54 | 23 R 51 | | | | | | □ | Δ | |
| 28 | 26 55 | 10 42 | 16 24 | 28 4 | 23 45 | | | | | | | ♊ | Δ |
| 29 | 26 51 | 10 53 | 17 2 | 29 14 | 23 33 | | | | | | | | |
| 30 | 26 47 | 11 5 | 17 40 | 0 24 | 23 18 | | | | | Δ | | | |
| 31 | 26 42 | 11 17 | 18 18 | 1 34 | 23 1 | | | * | ♈ | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 9 | 19 S 40 | 0 S 17 | 21 S 7 | 1 N 4 | 8 N 15 |
| 4 | 15 | 47 | 0 9 | 19 40 | 0 17 | 21 10 | 1 4 | 8 1 |
| 7 | 15 | 48 | 0 9 | 19 40 | 0 17 | 21 13 | 1 4 | 7 47 |
| 10 | 15 | 48 | 0 9 | 19 41 | 0 17 | 21 15 | 1 4 | 7 33 |
| 13 | 15 | 49 | 0 9 | 19 41 | 0 18 | 21 18 | 1 3 | 7 19 |
| 16 | 15 | 49 | 0 9 | 19 41 | 0 18 | 21 20 | 1 3 | 7 5 |
| 19 | 15 | 50 | 0 9 | 19 42 | 0 18 | 21 22 | 1 3 | 6 50 |
| 22 | 15 | 50 | 0 9 | 19 42 | 0 18 | 21 24 | 1 3 | 6 35 |
| 25 | 15 | 51 | 0 9 | 19 43 | 0 18 | 21 26 | 1 3 | 6 20 |
| 28 | 15 | 51 | 0 9 | 19 43 | 0 18 | 21 28 | 1 3 | 6 5 |
| 31 | 15 | 52 | 0 9 | 19 44 | 0 18 | 21 30 | 1 3 | 5 50 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 8 37 50 | 8 Ω 31 35 | 18 N 9 | 10 m 26 | 1 S 39 | 19 S 14 | 28 m 25 |
| 2 | Tu | 8 41 46 | 9 29 0 | 17 54 | 22 33 | 2 40 | 16 32 | 28 R 25 |
| 3 | W | 8 45 43 | 10 26 26 | 17 38 | 4 x 48 | 3 34 | 18 5 | 28 24 |
| 4 | Th | 8 49 40 | 11 23 53 | 17 23 | 17 16 | 4 19 | 9 1 | 28 24 |
| 5 | F | 8 53 36 | 12 21 22 | 17 7 | 29 56 | 4 52 | 4 30 | 28 24 |
| 6 | S | 8 57 33 | 13 18 52 | 16 50 | 12 r 50 | 5 11 | 0 N 18 | 28 24 |
| 7 | S | 9 1 29 | 14 16 23 | 16 34 | 26 0 | 5 14 | 5 10 | 28 D 24 |
| 8 | M | 9 5 26 | 15 13 55 | 16 17 | 9 s 28 | 5 1 | 9 54 | 28 24 |
| 9 | Tu | 9 9 22 | 16 11 29 | 16 0 | 23 13 | 4 29 | 14 15 | 28 25 |
| 10 | W | 9 13 19 | 17 9 5 | 15 43 | 7 Π 17 | 3 42 | 17 54 | 28 25 |
| 11 | Th | 9 17 15 | 18 6 42 | 15 25 | 21 39 | 2 39 | 20 33 | 28 25 |
| 12 | F | 9 21 12 | 19 4 21 | 15 7 | 6 ⊖ 16 | 1 25 | 21 54 | 28 26 |
| 13 | S | 9 25 9 | 20 2 1 | 14 49 | 21 4 | 0 5 | 21 44 | 28 26 |
| 14 | S | 9 29 5 | 20 59 42 | 14 31 | 5 Ω 56 | 1 N 16 | 20 2 | 28 26 |
| 15 | M | 9 33 2 | 21 57 25 | 14 12 | 20 46 | 2 32 | 16 59 | 28 27 |
| 16 | Tu | 9 36 58 | 22 55 10 | 13 53 | 5 m 25 | 3 36 | 12 53 | 28 27 |
| 17 | W | 9 40 55 | 23 52 55 | 13 34 | 19 46 | 4 25 | 8 7 | 28 28 |
| 18 | Th | 9 44 51 | 24 50 41 | 13 15 | 3 Δ 45 | 4 57 | 3 3 | 28 28 |
| 19 | F | 9 48 48 | 25 48 29 | 12 56 | 17 18 | 5 11 | 2 S 0 | 28 29 |
| 20 | S | 9 52 44 | 26 46 18 | 12 36 | 0 m 26 | 5 9 | 6 49 | 28 30 |
| 21 | S | 9 56 41 | 27 44 8 | 12 16 | 13 9 | 4 51 | 11 11 | 28 30 |
| 22 | M | 10 0 38 | 28 41 59 | 11 56 | 25 32 | 4 19 | 14 58 | 29 31 |
| 23 | Tu | 10 4 34 | 29 39 52 | 11 36 | 7 f 39 | 3 37 | 18 2 | 28 32 |
| 24 | W | 10 8 31 | 0 m 37 45 | 11 16 | 19 34 | 2 46 | 20 18 | 28 33 |
| 25 | Th | 10 12 27 | 1 35 40 | 10 55 | 1 v 23 | 1 48 | 21 39 | 28 34 |
| 26 | F | 10 16 24 | 2 33 36 | 10 35 | 13 11 | 0 46 | 22 3 | 28 35 |
| 27 | S | 10 20 20 | 3 31 34 | 10 13 | 25 2 | 0 S 19 | 21 27 | 28 36 |
| 28 | S | 10 24 17 | 4 29 33 | 9 52 | 6 m 59 | 1 23 | 19 53 | 28 37 |
| 29 | M | 10 28 13 | 5 27 33 | 9 31 | 19 6 | 2 24 | 17 23 | 28 38 |
| 30 | Tu | 10 32 10 | 6 25 35 | 9 10 | 1 x 26 | 3 19 | 14 5 | 28 39 |
| 31 | W | 10 36 6 | 7 23 38 | 8 48 | 13 58 | 4 5 | 10 5 | 28 40 |



SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 5 | 9 N 21 | 0 N 22 | 18 N 12 | 0 N 48 | 15 N 7 | 19 53 5 |
| 4 | 1 4 | 8 37 | 0 30 | 17 16 | 1 16 | 14 0 | 19 25 |
| 7 | 1 8 | 7 52 | 0 38 | 16 22 | 1 36 | 12 27 | 19 16 |
| 10 | 1 2 | 7 8 | 0 45 | 15 18 | 1 46 | 10 35 | 19 6 |
| 13 | 1 2 | 6 22 | 0 52 | 14 16 | 1 49 | 8 30 | 18 57 |
| 16 | 1 1 | 5 37 | 0 59 | 13 5 | 1 45 | 6 15 | 18 47 |
| 19 | 1 1 | 4 51 | 1 5 | 11 54 | 1 37 | 3 55 | 18 38 |
| 22 | 1 0 | 4 6 | 1 10 | 10 42 | 1 28 | 1 32 | 18 28 |
| 25 | 1 0 | 3 18 | 1 15 | 9 21 | 1 9 | 0 8 48 | 18 19 |
| 28 | 0 59 | 2 31 | 1 20 | 8 13 | 0 51 | 3 8 | 18 9 |

| D
M | ♄ | ♃ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♃ | ♂ | ♀ | ♊ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 24 47 | 17 55 | 8 39 | 9 41 | 21 28 | | | Δ | * | | | | |
| 2 | 24 44 | 18 8 | 9 17 | 10 53 | 22 56 | ☉ ☿ ♂ | | | | | | Δ | |
| 3 | 24 42 | 18 21 | 9 56 | 12 6 | 24 30 | | | | □ | | | | Δ |
| 4 | 24 40 | 18 34 | 10 34 | 13 19 | 26 12 | | Δ | | | | Δ | | |
| 5 | 24 37 | 18 47 | 11 13 | 14 32 | 27 56 | | | | Δ | Δ | | □ | |
| 6 | 24 35 | 19 0 | 11 51 | 15 45 | 29 41 | ♀ ☐ ☿ | | ♂ | | | | | □ |
| 7 | 24 33 | 19 13 | 12 29 | 16 58 | 1 27 | | □ | | | | □ | □ | * |
| 8 | 24 31 | 19 25 | 13 7 | 18 11 | 3 15 | | | | | | | * | * |
| 9 | 24 29 | 19 38 | 13 46 | 19 24 | 5 6 | | * | | | | * | * | |
| 10 | 24 28 | 19 51 | 14 24 | 20 37 | 6 59 | | | Δ | ♂ | | | | |
| 11 | 24 26 | 20 4 | 15 2 | 21 50 | 8 52 | | | | | | | | |
| 12 | 24 24 | 20 17 | 15 41 | 23 3 | 10 45 | | | □ | | | | ♂ | |
| 13 | 24 23 | 20 30 | 16 19 | 24 17 | 12 38 | ☉ ☿ ♃ | ♂ | | * | Δ | ♂ | ♂ | ♂ |
| 14 | 24 22 | 20 43 | 16 57 | 25 30 | 14 31 | | | * | | | | | |
| 15 | 24 20 | 20 56 | 17 36 | 26 44 | 16 25 | | | | | | | | |
| 16 | 24 19 | 21 9 | 18 14 | 27 57 | 18 18 | ♀ ☿ ♂ | | | | □ | | * | |
| 17 | 24 17 | 21 22 | 18 52 | 29 11 | 20 10 | ♀ ☐ ☿ | | | | | | | * |
| 18 | 24 16 | 21 35 | 19 31 | 0 24 | 22 2 | ☉ Δ ♄ | * | | * | * | * | | * |
| 19 | 24 15 | 21 48 | 20 9 | 1 38 | 23 53 | ♀ Δ ♄ | | ♂ | | | | □ | |
| 20 | 24 14 | 22 1 | 20 48 | 2 51 | 25 43 | | | | | | | □ | |
| 21 | 24 13 | 22 14 | 21 26 | 4 5 | 27 32 | ☉ ☿ ♀ | □ | | | | □ | | □ |
| 22 | 24 12 | 22 27 | 22 5 | 5 19 | 29 20 | ♀ ☐ ☿ | | | | | | Δ | |
| 23 | 24 12 | 22 40 | 22 43 | 6 33 | 1 7 | ☉ * ☿ | | | ♂ | Δ | Δ | | |
| 24 | 24 11 | 22 53 | 23 22 | 7 47 | 2 54 | ♂ ☿ ♃ | Δ | * | | | | | Δ |
| 25 | 24 11 | 23 6 | 24 0 | 9 1 | 4 40 | ♂ Δ ♄ | | | | | | | |
| 26 | 24 11 | 23 19 | 24 8 | 10 15 | 6 25 | | | | □ | | | | |
| 27 | 24 10 | 23 32 | 25 18 | 11 29 | 8 9 | | | | | | | ♂ | |
| 28 | 24 D 10 | 23 45 | 25 56 | 12 43 | 9 53 | | ♂ | Δ | * | ♂ | ♂ | | ♂ |
| 29 | 24 10 | 23 58 | 26 35 | 13 57 | 11 35 | | | | | | | | ♂ |
| 30 | 24 11 | 24 11 | 27 13 | 15 11 | 13 16 | ♃ Δ ♄ | | | □ | | | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 8 | 19 8 59 | 0 8 21 | 21 8 38 | 1 N 4 | 3 N 13 |
| 4 | 16 | 1 | 0 8 | 20 1 | 0 21 | 21 38 | 1 4 | 2 58 |
| 7 | 16 | 2 | 0 8 | 20 3 | 0 21 | 21 38 | 1 5 | 2 48 |
| 10 | 16 | 3 | 0 8 | 20 4 | 0 21 | 21 38 | 1 5 | 2 28 |
| 13 | 16 | 4 | 0 8 | 20 5 | 0 21 | 21 37 | 1 5 | 2 14 |
| 16 | 16 | 5 | 0 8 | 20 7 | 0 21 | 21 36 | 1 5 | 2 0 |
| 19 | 16 | 5 | 0 8 | 20 9 | 0 21 | 21 35 | 1 6 | 1 45 |
| 22 | 16 | 6 | 0 8 | 20 10 | 0 21 | 21 34 | 1 6 | 1 30 |
| 25 | 16 | 7 | 0 8 | 20 12 | 0 22 | 21 33 | 1 6 | 1 16 |
| 28 | 16 | 7 | 0 8 | 20 14 | 0 22 | 21 32 | 1 6 | 1 2 |
| 31 | 16 | 8 | 0 8 | 20 16 | 0 22 | 21 30 | 1 7 | 0 46 |

40
 42
 45
 47
 50
 53
 55
 56
 1
 5
 8
 11
 14
 17
 20
 23
 26
 29
 32
 35
 38
 41
 44
 47
 50
 53
 56
 59
 62
 65
 68
 71
 74
 77
 80
 83
 86
 89
 92
 95
 98
 100

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 8 | 20 S 18 | 0 E 22 | 21 S 30 | 1 N 7 | 0 N 45 |
| 4 | 16 | 10 | 0 8 | 20 21 | 0 22 | 21 28 | 1 7 | 0 32 |
| 7 | 16 | 11 | 0 8 | 20 24 | 0 22 | 21 26 | 1 8 | 0 18 |
| 10 | 16 | 12 | 0 8 | 20 26 | 0 22 | 21 24 | 1 8 | 0 5 |
| 13 | 16 | 12 | 0 8 | 20 27 | 0 22 | 21 22 | 1 9 | 0 8 7 |
| 16 | 16 | 13 | 0 8 | 20 29 | 0 22 | 21 20 | 1 9 | 0 18 |
| 19 | 16 | 14 | 0 8 | 20 31 | 0 22 | 21 17 | 1 10 | 0 30 |
| 22 | 16 | 14 | 0 8 | 20 33 | 0 22 | 21 15 | 1 10 | 0 41 |
| 25 | 16 | 15 | 0 8 | 20 35 | 0 22 | 21 12 | 1 11 | 0 53 |
| 28 | 16 | 15 | 0 8 | 20 38 | 0 22 | 21 9 | 1 11 | 1 3 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 14 40 33 | 8 27 8 | 14 S 20 | 24 11 52 | 1 S 46 | 21 N 35 | 1 16 |
| 2 | W | 14 44 29 | 9 27 15 | 14 39 | 9 13 | 0 32 | 22 37 | 1 19 |
| 3 | Th | 14 48 26 | 10 27 24 | 14 58 | 23 29 | 0 N 44 | 22 8 | 1 23 |
| 4 | F | 14 52 22 | 11 27 36 | 15 17 | 7 37 | 1 57 | 20 16 | 1 27 |
| 5 | S | 14 56 19 | | | | 1 17 | 11 | 1 30 |
| 6 | S | 15 0 16 | | | | 5 13 | 10 | 1 34 |
| 7 | M | 15 4 12 | | | | 14 8 | 30 | 1 37 |
| 8 | Tu | 15 8 9 | | | | 18 8 | 30 | 1 41 |
| 9 | W | 15 12 5 | | | | 5 13 | 36 | 1 45 |
| 10 | Th | 15 16 2 | | | | 16 6 | 34 | 1 49 |
| 11 | F | 15 19 58 | | | | 11 11 | 10 | 1 52 |
| 12 | S | 15 23 55 | | | | 19 16 | 11 | 1 55 |
| 13 | S | 15 27 51 | | | | 5 18 | 29 | 1 59 |
| 14 | M | 15 31 48 | | | | 9 20 | 53 | 2 2 |
| 15 | Tu | 16 35 44 | | | | 8 22 | 19 | 2 6 |
| 16 | W | 16 39 41 | 23 32 27 | 18 41 13 | 14 0 | 4 22 | 44 | 2 9 |
| 17 | Th | 16 43 38 | 24 33 2 | 18 56 25 | 2 0 | 3 59 | 22 7 | 2 12 |
| 18 | F | 16 47 34 | 25 33 38 | 19 10 6 | m 49 | 2 0 | 20 31 | 2 16 |
| 19 | S | 16 51 31 | 26 34 15 | 19 24 18 | 40 2 | 56 18 | 2 | 2 20 |
| 20 | S | 16 55 27 | 27 34 54 | 19 38 0 | x 41 | 3 46 | 14 45 | 2 24 |
| 21 | M | 16 59 24 | | | | 32 12 | 57 | 4 26 |
| 22 | Tu | 16 3 20 | | | | 5 25 | 34 | 4 54 |
| 23 | W | 16 7 17 | | | | 8 8 | 34 | 5 9 |
| 24 | Th | 16 11 13 | | | | 10 22 | 1 | 5 7 |
| 25 | F | 16 15 10 | | | | 13 5 | 58 | 4 47 |
| 26 | S | 16 19 7 | 3 39 8 | 20 54 20 | 9 4 | 10 18 | 47 | 2 46 |
| 27 | S | 16 23 3 | 4 39 54 | 21 5 4 | 11 44 | 3 16 | 17 54 | 2 49 |
| 28 | M | 16 27 0 | 5 40 42 | 21 16 19 | 32 2 | 7 20 | 57 | 2 53 |
| 29 | Tu | 16 30 56 | 6 41 31 | 21 27 45 | 23 0 | 49 22 | 34 | 2 57 |
| 30 | W | 16 34 53 | 7 42 21 | 21 37 19 | 10 0 | N 31 | 22 37 | 3 1 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , |
| 1 | 0 N 48 | 6 S 20 | 1 N 23 | 8 S 25 | 2 S 35 | 22 S 49 | 16 52 1 |
| 4 | 0 47 | 7 5 | 1 19 | 9 50 | 2 42 | 23 39 | 16 11 |
| 7 | 0 46 | 7 51 | 1 16 | 11 11 | 2 45 | 24 16 | 16 2 |
| 10 | 0 45 | 8 36 | 1 12 | 12 30 | 2 41 | 24 39 | 15 52 |
| 13 | 0 44 | 9 20 | 1 7 | 13 48 | 2 29 | 24 44 | 15 43 |
| 16 | 0 42 | 10 3 | 1 2 | 15 7 | 2 7 | 24 31 | 15 33 |
| 19 | 0 41 | 10 47 | 0 56 | 16 13 | 1 33 | 23 55 | 15 24 |
| 22 | 0 40 | 11 27 | 0 50 | 17 18 | 0 44 | 22 54 | 15 14 |
| 25 | 0 39 | 12 12 | 0 44 | 18 22 | 0 N 15 | 21 27 | 15 5 |
| 28 | 0 37 | 12 52 | 0 37 | 19 19 | 1 15 | 19 46 | 14 55 |

| D
M | h | | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , | ° , | | | | | | | |
| 1 | 25 5 | 0 43 | 18 1 | 25 2 | 0 36 | ♀ ☐ h | | | ♀ ☐ h | | | | | | |
| 2 | 25 8 | 0 55 | 18 40 | 26 17 | 1 49 | ♀ ☐ h | | | ♀ ☐ h | Δ | | | | | |
| 3 | 25 12 | 1 6 | 19 19 | 27 32 | 3 0 | ♀ * ♈ | | | ♀ * ♈ | | | ♈ | | | |
| 4 | 25 15 | 1 18 | 19 59 | 28 47 | 4 9 | | | | | ☐ | Δ | | * | | Δ |
| 5 | 25 19 | 1 29 | 20 38 | 0 m 3 | 5 16 | | | | | | | | * | | |
| 6 | 25 22 | 1 40 | 21 18 | 1 8 | 6 21 | ♈ * h | | | ♈ * h | | ☐ | | | | * |
| 7 | 25 26 | 1 51 | 21 57 | 2 34 | 7 23 | | | | | * | | Δ | | | * |
| 8 | 25 30 | 2 2 | 22 36 | 3 49 | 8 22 | | | | | | * | | ♈ | | * |
| 9 | 25 34 | 2 13 | 23 16 | 5 4 | 9 17 | | | | | | | | | ♈ | |
| 10 | 25 38 | 2 24 | 23 55 | 6 20 | 10 7 | | | | | | | ☐ | | ♈ | |
| 11 | 25 42 | 2 34 | 24 35 | 7 35 | 10 52 | | | | | | | | | | ♈ |
| 12 | 25 46 | 2 45 | 25 14 | 8 50 | 11 33 | | | | | ♈ | | * | | | ♈ |
| 13 | 25 50 | 2 56 | 25 54 | 10 6 | 12 10 | ♈ ☐ h | | | ♈ ☐ h | | ♈ | | * | | ♈ |
| 14 | 25 54 | 3 7 | 26 33 | 11 21 | 12 40 | | | | | | | | | | |
| 15 | 25 58 | 3 17 | 27 13 | 12 36 | 13 2 | | | | | | | | ☐ | * | |
| 16 | 26 3 | 3 28 | 27 53 | 13 52 | 13 16 | | | | | | | | | | * |
| 17 | 26 7 | 3 38 | 28 32 | 15 7 | 13 22 | | | | | * | | ♈ | | ☐ | * |
| 18 | 26 11 | 3 48 | 29 12 | 16 22 | 13 19 | | | | | | * | | Δ | | |
| 19 | 26 16 | 3 58 | 29 52 | 17 38 | 13 6 | ☉ * h | | | ☉ * h | | | | | | ☐ |
| 20 | 26 21 | 4 8 | 0 m 31 | 18 53 | 12 42 | | | | | ☐ | ☐ | | | Δ | * |
| 21 | 26 26 | 4 18 | 1 11 | 20 9 | 12 7 | | | | | | | | | | ☐ |
| 22 | 26 31 | 4 28 | 1 51 | 21 24 | 11 22 | | | | | Δ | | * | | | Δ |
| 23 | 26 36 | 4 38 | 2 31 | 22 40 | 10 28 | | | | | | Δ | | ♈ | | Δ |
| 24 | 26 41 | 4 47 | 3 11 | 23 55 | 9 23 | | | | | | | ☐ | | | |
| 25 | 26 46 | 4 57 | 3 51 | 25 11 | 8 10 | ☉ ☐ h | | | ☉ ☐ h | | | | | ♈ | |
| 26 | 26 51 | 5 7 | 4 30 | 26 26 | 6 52 | | | | | | | | Δ | | ♈ |
| 27 | 26 56 | 5 16 | 5 10 | 27 42 | 5 30 | ☉ ☐ ♈ | | | ☉ ☐ ♈ | ♈ | ♈ | | Δ | | ♈ |
| 28 | 27 2 | 5 25 | 5 50 | 28 57 | 4 7 | ☉ * ♈ | | | ☉ * ♈ | | | | | | |
| 29 | 27 7 | 5 34 | 6 30 | 0 13 | 2 47 | | | | | | | | | Δ | |
| 30 | 27 11 | 5 43 | 7 10 | 1 23 | 1 31 | ♈ ☐ ♈ | | | ♈ ☐ ♈ | | | | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 8 | 20 S 40 | 0 S 23 | 21 S 6 | 1 N 12 | 1 S 13 |
| 4 | 16 | 15 | 0 8 | 20 42 | 0 23 | 21 3 | 1 18 | 1 23 |
| 7 | 16 | 16 | 0 8 | 20 45 | 0 24 | 21 0 | 1 14 | 1 32 |
| 10 | 16 | 16 | 0 8 | 20 47 | 0 24 | 20 57 | 1 14 | 1 41 |
| 13 | 16 | 16 | 0 8 | 20 49 | 0 24 | 20 53 | 1 15 | 1 49 |
| 16 | 16 | 16 | 0 8 | 20 51 | 0 24 | 20 49 | 1 15 | 1 57 |
| 19 | 16 | 17 | 0 8 | 20 53 | 0 24 | 20 45 | 1 16 | 2 4 |
| 22 | 16 | 17 | 0 8 | 20 54 | 0 24 | 20 41 | 1 17 | 2 11 |
| 25 | 16 | 17 | 0 8 | 20 56 | 0 24 | 20 37 | 1 18 | 2 17 |
| 28 | 16 | 17 | 0 8 | 20 58 | 0 24 | 20 33 | 1 18 | 2 23 |
| 31 | 16 | 17 | 0 8 | 21 0 | 0 24 | 20 29 | 1 19 | 2 30 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♃
Long. |
|--------|--------|-------------------|----|----|------------|-------------|------------|-----------|-------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | Th | 16 | 38 | 49 | 8 ♄ 43 13 | 21 S 47 | 3 ♄ 48 | 1 N 49 | 21 N 5 | 3 ♄ 5 |
| 2 | F | 16 | 42 | 46 | 9 44 6 | 21 56 | 18 12 | 2 59 | 18 13 | 3 9 |
| 3 | S | 16 | 46 | 43 | 10 45 1 | 22 5 | 2 ♄ 19 | 3 56 | 14 20 | 3 12 |
| 4 | S | 16 | 50 | 39 | 11 45 57 | 22 13 | 16 8 | 4 39 | 9 45 | 3 16 |
| 5 | M | 16 | 54 | 36 | 12 46 55 | 22 21 | 29 40 | 5 4 | 4 47 | 3 20 |
| 6 | Tu | 16 | 58 | 32 | 13 47 53 | 22 29 | 12 ♄ 56 | 5 13 | 0 S 18 | 3 24 |
| 7 | W | 17 | 2 | 29 | 14 48 53 | 22 36 | 25 56 | 5 6 | 5 16 | 3 27 |
| 8 | Th | 17 | 6 | 25 | 15 49 54 | 22 43 | 8 ♄ 43 | 4 43 | 9 56 | 3 31 |
| 9 | F | 17 | 10 | 22 | 16 50 56 | 22 49 | 21 16 | 4 7 | 14 7 | 3 35 |
| 10 | S | 17 | 14 | 18 | 17 52 0 | 22 55 | 8 ♄ 39 | 3 20 | 17 38 | 3 38 |
| 11 | S | 17 | 18 | 15 | 18 53 4 | 23 0 | 15 50 | 2 24 | 20 19 | 3 42 |
| 12 | M | 17 | 22 | 12 | 19 54 9 | 23 5 | 27 53 | 1 23 | 22 4 | 3 45 |
| 13 | Tu | 17 | 26 | 8 | 20 55 15 | 23 9 | 9 ♄ 48 | 0 18 | 22 48 | 3 49 |
| 14 | W | 17 | 30 | 5 | 21 56 21 | 23 13 | 21 37 | 0 S 47 | 22 30 | 3 52 |
| 15 | Th | 17 | 34 | 1 | 22 57 28 | 23 17 | 3 ♄ 24 | 1 50 | 21 12 | 3 56 |
| 16 | F | 17 | 37 | 58 | 23 58 35 | 23 20 | 15 11 | 2 49 | 18 59 | 4 0 |
| 17 | S | 17 | 41 | 54 | 24 59 43 | 23 22 | 27 3 | 3 40 | 15 57 | 4 3 |
| 18 | S | 17 | 45 | 51 | 26 0 51 | 23 24 | 9 ♄ 3 | 4 33 | 12 15 | 4 7 |
| 19 | M | 17 | 49 | 47 | 27 1 59 | 23 26 | 21 17 | 4 55 | 7 58 | 4 10 |
| 20 | Tu | 17 | 53 | 44 | 28 3 7 | 23 27 | 3 ♄ 48 | 5 13 | 3 16 | 4 14 |
| 21 | W | 17 | 57 | 41 | 29 4 15 | 23 28 | 16 42 | 5 17 | 1 N 42 | 4 17 |
| 22 | Th | 18 | 1 | 37 | 0 ♄ 5 24 | 23 28 | 0 ♄ 2 | 5 4 | 6 45 | 4 21 |
| 23 | F | 18 | 5 | 33 | 1 6 32 | 23 27 | 13 50 | 4 33 | 11 40 | 4 24 |
| 24 | S | 18 | 9 | 30 | 2 7 41 | 23 27 | 28 5 | 3 45 | 16 6 | 4 27 |
| 25 | S | 18 | 13 | 27 | 3 8 49 | 23 26 | 12 ♄ 44 | 2 40 | 19 42 | 4 31 |
| 26 | M | 18 | 17 | 24 | 4 9 58 | 23 24 | 27 43 | 1 21 | 22 2 | 4 34 |
| 27 | Tu | 18 | 21 | 21 | 5 11 6 | 23 22 | 12 ♄ 51 | 0 1 | 22 50 | 4 38 |
| 28 | W | 18 | 25 | 18 | 6 12 15 | 23 19 | 28 1 | 1 N 23 | 21 56 | 4 41 |
| 29 | Th | 18 | 29 | 15 | 7 13 25 | 23 16 | 13 ♄ 3 | 2 39 | 19 28 | 4 44 |
| 30 | F | 18 | 33 | 12 | 8 14 34 | 23 12 | 27 49 | 3 44 | 15 45 | 4 47 |
| 31 | S | 18 | 37 | 9 | 9 15 44 | 23 8 | 12 ♄ 13 | 4 33 | 11 11 | 4 50 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 36 | 13 S 34 | 0 N 30 | 20 S 14 | 2 N 4 | 18 S 14 | 14 54 46 |
| 4 | 0 34 | 14 13 | 0 23 | 20 57 | 2 34 | 17 13 | 14 37 |
| 7 | 0 33 | 14 52 | 0 16 | 21 44 | 2 45 | 16 52 | 14 27 |
| 10 | 0 31 | 15 34 | 0 9 | 22 28 | 2 42 | 17 4 | 14 18 |
| 13 | 0 30 | 16 7 | 0 2 | 22 52 | 2 29 | 17 42 | 14 8 |
| 16 | 0 28 | 16 44 | 0 S 5 | 23 18 | 2 11 | 18 34 | 13 59 |
| 19 | 0 27 | 17 18 | 0 12 | 23 35 | 1 48 | 19 32 | 13 49 |
| 22 | 0 25 | 17 51 | 0 19 | 23 48 | 1 25 | 20 31 | 13 40 |
| 25 | 0 24 | 18 24 | 0 26 | 23 52 | 1 0 | 21 27 | 13 30 |
| 28 | 0 23 | 18 54 | 0 33 | 23 51 | 0 36 | 22 17 | 13 21 |
| 31 | 0 21 | 19 24 | 0 40 | 23 39 | 0 13 | 23 0 | 13 11 |

| D
M | h | | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 27 18 | 5 52 | 7 50 | 2 44 | 0 22 | ♀ ☉ ♈ | Δ Δ | | ♀ ☉ ♈ | Δ Δ | | * | □ | Δ | Δ | |
| 2 | 27 23 | 6 1 | 8 30 | 3 59 | 29 16 | | | | | | | | | | | |
| 3 | 27 29 | 6 10 | 9 10 | 5 15 | 28 27 | | | | | | □ | | | | □ | □ |
| 4 | 27 34 | 6 18 | 9 50 | 6 30 | 27 55 | ♀ * ♈ | □ | | ♀ * ♈ | □ | * | | | * | | |
| 5 | 27 40 | 6 26 | 10 30 | 7 46 | 27 31 | ♀ * ♈ | | | ♀ * ♈ | * | Δ | | | | | * |
| 6 | 27 46 | 6 34 | 11 10 | 9 1 | 27 15 | | | | | * | | | ♈ | | * | |
| 7 | 27 52 | 6 42 | 11 50 | 10 17 | 27 D 8 | | | | | | | □ | | ♈ | | |
| 8 | 27 58 | 6 50 | 12 31 | 11 32 | 27 11 | | | | | | | | | ♈ | | |
| 9 | 28 4 | 6 58 | 13 11 | 12 48 | 27 26 | | | | | | | | | | | |
| 10 | 28 10 | 7 5 | 13 51 | 14 3 | 27 53 | | | | | ♈ | * | * | | | | ♈ |
| 11 | 28 16 | 7 13 | 14 31 | 15 19 | 28 26 | ♀ * ♈ | ♈ | | ♀ * ♈ | ♈ | | | | | ♈ | |
| 12 | 28 22 | 7 21 | 15 11 | 16 34 | 29 4 | | | | | | | | | | | |
| 13 | 28 28 | 7 28 | 15 51 | 17 50 | 29 48 | | | | | | | | □ | | | |
| 14 | 28 34 | 7 35 | 16 32 | 19 5 | 0 38 | | | | | | * | ♈ | | * | | |
| 15 | 28 40 | 7 42 | 17 12 | 20 21 | 1 33 | | | | | * | ♈ | Δ | | | | * |
| 16 | 28 46 | 7 49 | 17 52 | 21 36 | 2 33 | | | | | | | | | | □ | |
| 17 | 28 53 | 7 56 | 18 33 | 22 52 | 3 37 | ♀ ☉ ♈ | * | | ♀ ☉ ♈ | * | | | | | * | |
| 18 | 28 59 | 8 3 | 19 13 | 24 7 | 4 44 | | | | | | □ | | | | | □ |
| 19 | 29 5 | 8 10 | 19 53 | 25 23 | 5 53 | | | | | | | | | Δ | □ | |
| 20 | 29 12 | 8 16 | 20 33 | 26 38 | 7 5 | | | | | □ | Δ | * | ♈ | | | Δ |
| 21 | 29 18 | 8 22 | 21 14 | 27 54 | 8 19 | ♀ * ♈ | | | ♀ * ♈ | | | | | | | |
| 22 | 29 25 | 8 28 | 21 54 | 29 9 | 9 35 | | | | | Δ | | □ | | | Δ | |
| 23 | 29 31 | 8 34 | 22 35 | 0 25 | 10 53 | | | | | | | | | | | |
| 24 | 29 38 | 8 40 | 23 15 | 1 41 | 12 12 | | | | | | ♈ | Δ | | ♈ | | |
| 25 | 29 45 | 8 45 | 23 56 | 2 57 | 13 32 | | | | | | | | Δ | | | ♈ |
| 26 | 29 51 | 8 50 | 24 36 | 4 12 | 14 54 | ☉ ☉ ♈ | ♈ | | ☉ ☉ ♈ | ♈ | | | | | ♈ | |
| 27 | 29 58 | 8 55 | 25 17 | 5 28 | 16 17 | | | | | | | | | □ | | |
| 28 | 0 5 | 9 0 | 25 57 | 6 43 | 17 41 | | | | | | Δ | ♈ | | * | Δ | Δ |
| 29 | 0 11 | 9 5 | 26 38 | 7 59 | 19 6 | | | | | | | | | * | | |
| 30 | 0 18 | 9 10 | 27 18 | 9 14 | 20 31 | ♀ ☉ ♈ | | | ♀ ☉ ♈ | | | | | | □ | |
| 31 | 0 25 | 9 15 | 27 59 | 10 30 | 21 57 | ☉ ☉ ♈ | Δ | □ | ☉ ☉ ♈ | Δ | □ | | | | | Δ |

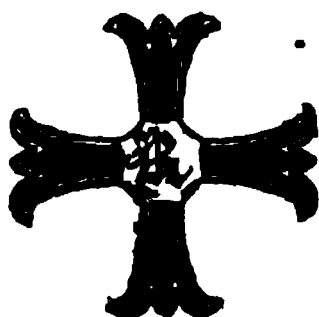
}

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1815.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

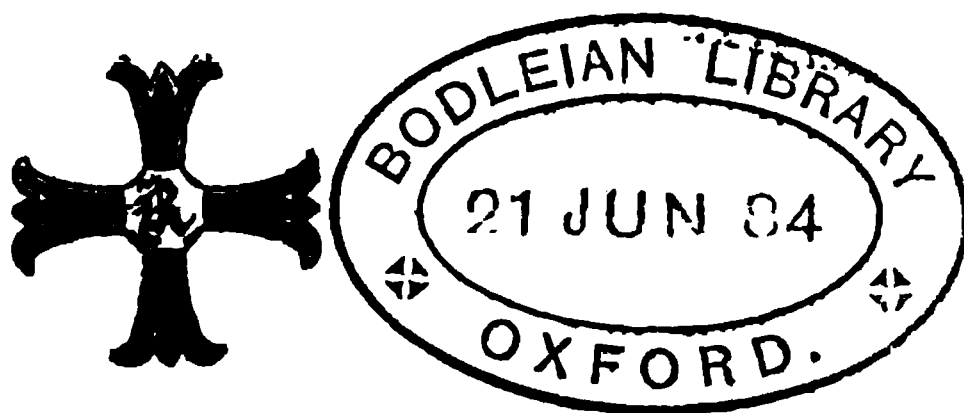
(Alm. 939 c. 11)

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1815.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1888.
Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 8 | 21 S 1 | 0 S 25 | 20 S 28 | 1 N 19 | 2 S 29 |
| 4 | 16 | 15 | 0 8 | 21 8 | 0 25 | 20 22 | 1 20 | 2 33 |
| 7 | 16 | 16 | 0 7 | 21 5 | 0 25 | 20 19 | 1 21 | 2 37 |
| 10 | 16 | 16 | 0 7 | 21 6 | 0 25 | 20 15 | 1 22 | 2 40 |
| 13 | 16 | 17 | 0 7 | 21 7 | 0 26 | 20 10 | 1 23 | 2 42 |
| 16 | 16 | 17 | 0 7 | 21 8 | 0 26 | 20 6 | 1 23 | 2 43 |
| 19 | 16 | 17 | 0 7 | 21 9 | 0 26 | 20 1 | 1 24 | 2 44 |
| 22 | 16 | 18 | 0 7 | 21 11 | 0 26 | 19 56 | 1 25 | 2 44 |
| 25 | 16 | 18 | 0 7 | 21 13 | 0 26 | 19 51 | 1 26 | 2 44 |
| 28 | 16 | 18 | 0 7 | 21 14 | 0 26 | 19 46 | 1 26 | 2 43 |
| 31 | 16 | 18 | 0 7 | 21 15 | 0 26 | 19 41 | 1 27 | 2 41 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 18 41 6 | 10 w 16 54 | 28 S 4 | 26 m 14 | 5 N 5 | 6 N 9 | 4 f 53 |
| 2 | M | 18 45 3 | 11 18 5 | 22 59 | 9 a 50 | 5 18 | 0 58 | 4 56 |
| 3 | Tu | 18 48 59 | 12 19 16 | 22 53 | 23 2 | 5 13 | 4 S 7 | 4 59 |
| 4 | W | 18 52 56 | 13 20 27 | 22 48 | 5 m 53 | 4 53 | 8 53 | 5 2 |
| 5 | Th | 18 56 52 | 14 21 38 | 22 41 | 18 27 | 4 20 | 13 10 | 5 5 |
| 6 | F | 19 0 49 | 15 22 50 | 22 35 | 0 f 46 | 3 34 | 16 50 | 5 8 |
| 7 | S | 19 4 45 | 16 24 1 | 22 27 | 12 53 | 2 40 | 19 43 | 5 11 |
| 8 | S | 19 8 42 | 17 25 12 | 22 20 | 24 52 | 1 40 | 21 42 | 5 14 |
| 9 | M | 19 12 39 | 18 26 23 | 22 12 | 6 w 46 | 0 35 | 22 42 | 5 17 |
| 10 | Tu | 19 16 35 | 19 27 34 | 22 3 | 18 35 | 0 S 31 | 22 41 | 5 20 |
| 11 | W | 19 20 32 | 20 28 45 | 21 54 | 0 m 23 | 1 35 | 21 38 | 5 24 |
| 12 | Th | 19 24 28 | 21 29 54 | 21 45 | 12 11 | 2 35 | 19 38 | 5 27 |
| 13 | F | 19 28 25 | 22 31 4 | 21 35 | 24 1 | 3 28 | 16 48 | 5 30 |
| 14 | S | 19 32 21 | 23 32 13 | 21 25 | 5 x 57 | 4 13 | 13 15 | 5 33 |
| 15 | S | 19 36 18 | 24 33 21 | 21 14 | 18 2 | 4 48 | 9 9 | 5 36 |
| 16 | M | 19 40 14 | 25 34 28 | 21 3 | 0 r 17 | 5 9 | 4 37 | 5 39 |
| 17 | Tu | 19 44 11 | 26 35 34 | 20 51 | 12 47 | 5 17 | 0 N 11 | 5 41 |
| 18 | W | 19 48 8 | 27 36 39 | 20 40 | 25 36 | 5 9 | 5 6 | 5 44 |
| 19 | Th | 19 52 4 | 28 37 43 | 20 27 | 8 s 46 | 4 45 | 9 56 | 5 47 |
| 20 | F | 19 56 1 | 29 38 46 | 20 15 | 22 21 | 4 5 | 14 26 | 5 49 |
| 21 | S | 19 59 47 | 0 m 39 49 | 20 2 | 6 n 23 | 3 9 | 18 17 | 5 51 |
| 22 | S | 20 3 54 | 1 40 49 | 19 48 | 20 50 | 2 0 | 21 9 | 5 54 |
| 23 | M | 20 7 50 | 2 41 49 | 19 35 | 5 s 41 | 0 40 | 22 40 | 5 56 |
| 24 | Tu | 20 11 47 | 3 42 48 | 19 20 | 20 47 | 0 N 43 | 22 34 | 5 59 |
| 25 | W | 20 15 43 | 4 43 46 | 19 6 | 6 s 3 | 2 4 | 20 47 | 6 1 |
| 26 | Th | 20 19 40 | 5 44 43 | 18 51 | 21 16 | 3 16 | 17 30 | 6 3 |
| 27 | F | 20 23 37 | 6 45 38 | 18 36 | 6 m 18 | 4 13 | 13 7 | 6 6 |
| 28 | S | 20 27 33 | 7 46 34 | 18 21 | 21 0 | 4 52 | 8 3 | 6 8 |
| 29 | S | 20 31 30 | 8 47 28 | 18 5 | 5 a 16 | 5 12 | 2 41 | 6 10 |
| 30 | M | 20 35 26 | 9 48 22 | 17 49 | 19 3 | 4 13 | 2 S 38 | 6 12 |
| 31 | Tu | 20 39 23 | 10 49 14 | 17 32 | 2 m 22 | 4 56 | 7 40 | 6 14 |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia | | Herschel. | | Saturn. | | Jupiter. | |
|--------|------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 7 | 21 8 15 | 0 S 27 | 19 S 40 | 1 N 28 | 2 8 40 |
| 4 | 16 | 15 | 0 7 | 21 16 | 0 27 | 19 35 | 1 28 | 2 37 |
| 7 | 16 | 14 | 0 7 | 21 17 | 0 27 | 19 30 | 1 29 | 2 35 |
| 10 | 16 | 14 | 0 7 | 21 18 | 0 27 | 19 25 | 1 30 | 2 30 |
| 13 | 16 | 13 | 0 7 | 21 18 | 0 27 | 19 20 | 1 31 | 2 26 |
| 16 | 16 | 12 | 0 7 | 21 19 | 0 27 | 19 15 | 1 31 | 2 21 |
| 19 | 16 | 11 | 0 7 | 21 19 | 0 27 | 19 11 | 1 32 | 2 15 |
| 22 | 16 | 11 | 0 7 | 21 20 | 0 27 | 19 6 | 1 32 | 2 9 |
| 25 | 16 | 10 | 0 7 | 21 20 | 0 27 | 19 1 | 1 33 | 2 2 |
| 28 | 16 | 10 | 0 7 | 21 21 | 0 27 | 18 56 | 1 33 | 1 57 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ♂
Long. | | | ♂
Lat. | | | ♂
Declin | | | ♂
Long. | | | | |
|--------|--------|-------------------|----|----|------------|---|----|-------------|----|----|------------|----|----|-----------|----|----|-------------|----|----|------------|---|---|----|----|
| | | H. | M. | s. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | | |
| 1 | W | 20 | 43 | 19 | 11 | m | 50 | 7 | 17 | S | 15 | 15 | m | 14 | 4 | N | 25 | 12 | S | 11 | 6 | 7 | 16 | |
| 2 | Th | 20 | 47 | 16 | 12 | | 50 | 58 | 16 | 58 | 27 | 45 | 3 | 43 | 16 | | 4 | | | | 6 | | 18 | |
| 3 | F | 20 | 51 | 12 | 13 | | 51 | 48 | 16 | 41 | 9 | 58 | 2 | 51 | 19 | | 9 | | | | 6 | | 20 | |
| 4 | S | 20 | 55 | 9 | 14 | | 52 | 37 | 16 | 23 | 21 | 58 | 1 | 52 | 21 | | 22 | | | | 6 | | 22 | |
| 5 | S | 20 | 59 | 6 | 15 | | 53 | 26 | 16 | 5 | 3 | w | 50 | 0 | 49 | 22 | | 36 | | | 6 | | 24 | |
| 6 | M | 21 | 8 | 2 | 16 | | 54 | 13 | 15 | 47 | 15 | 37 | 0 | S | 15 | 22 | | 48 | | | 6 | | 26 | |
| 7 | Tu | 21 | 6 | 59 | 17 | | 54 | 59 | 15 | 28 | 27 | 24 | 1 | 19 | 22 | | 0 | | | | 6 | | 27 | |
| 8 | W | 21 | 10 | 55 | 18 | | 55 | 44 | 15 | 10 | 9 | m | 12 | 2 | 19 | 20 | | 13 | | | 6 | | 29 | |
| 9 | Th | 21 | 14 | 52 | 19 | | 56 | 27 | 14 | 51 | 21 | 4 | 3 | 14 | 17 | | 32 | | | | 6 | | 30 | |
| 10 | F | 21 | 18 | 48 | 20 | | 57 | 10 | 14 | 32 | 3 | x | 2 | 4 | 0 | 14 | | 7 | | | 6 | | 33 | |
| 11 | S | 21 | 22 | 45 | 21 | | 57 | 51 | 14 | 12 | 15 | 8 | 4 | 36 | 10 | | 6 | | | | 6 | | 33 | |
| 12 | S | 21 | 26 | 41 | 22 | | 58 | 29 | 13 | 52 | 27 | 22 | 4 | 59 | 5 | | 37 | | | | 6 | | 35 | |
| 13 | M | 21 | 30 | 38 | 23 | | 59 | 7 | 13 | 32 | 9 | r | 47 | 5 | 9 | 0 | | 52 | | | 6 | | 36 | |
| 14 | Tu | 21 | 34 | 34 | 24 | | 59 | 42 | 13 | 12 | 22 | 24 | 5 | 5 | 4 | N | 1 | | | | 6 | | 37 | |
| 15 | W | 21 | 38 | 31 | 26 | | 0 | 16 | 12 | 52 | 4 | x | 15 | 4 | 45 | 8 | | 49 | | | 6 | | 39 | |
| 16 | Th | 21 | 42 | 27 | 27 | | 0 | 48 | 12 | 31 | 18 | 23 | 4 | 9 | 13 | | 19 | | | | 6 | | 40 | |
| 17 | F | 21 | 46 | 24 | 28 | | 1 | 19 | 12 | 10 | 1 | n | 49 | 3 | 20 | 17 | | 17 | | | 6 | | 42 | |
| 18 | S | 21 | 50 | 20 | 29 | | 1 | 46 | 11 | 49 | 15 | 37 | 2 | 18 | 20 | | 24 | | | | 6 | | 43 | |
| 19 | S | 21 | 54 | 17 | 0 | x | 2 | 13 | 11 | 28 | 29 | 46 | 1 | 6 | 22 | | 22 | | | | 6 | | 44 | |
| 20 | M | 21 | 58 | 14 | 1 | | 2 | 37 | 11 | 7 | 14 | 25 | 17 | 0 | N | 12 | 22 | | 54 | | | 6 | | 45 |
| 21 | Tu | 22 | 2 | 10 | 2 | | 2 | 59 | 10 | 45 | 29 | 6 | 1 | 31 | 21 | | 51 | | | | 6 | | 46 | |
| 22 | W | 22 | 6 | 7 | 3 | | 3 | 19 | 10 | 24 | 14 | Ω | 7 | 2 | 44 | 19 | | 14 | | | 6 | | 47 | |
| 23 | Th | 22 | 10 | 4 | 4 | | 3 | 37 | 10 | 2 | 29 | 13 | 3 | 48 | 15 | | 17 | | | | 6 | | 48 | |
| 24 | F | 22 | 14 | 0 | 5 | | 3 | 54 | 9 | 40 | 14 | m | 13 | 4 | 32 | 10 | | 24 | | | 6 | | 49 | |
| 25 | S | 22 | 17 | 57 | 6 | | 4 | 9 | 9 | 18 | 28 | 59 | 4 | 59 | 4 | | 58 | | | | 6 | | 50 | |
| 26 | S | 22 | 21 | 53 | 7 | | 4 | 22 | 8 | 53 | 13 | 22 | 5 | 6 | 0 | S | 35 | | | | 6 | | 51 | |
| 27 | M | 22 | 25 | 50 | 8 | | 4 | 34 | 8 | 33 | 27 | 18 | 4 | 54 | 5 | | 56 | | | | 6 | | 52 | |
| 28 | Tu | 22 | 29 | 46 | 9 | | 4 | 44 | 8 | 10 | 10 | m | 45 | 4 | 27 | 10 | | 50 | | | 6 | | 53 | |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 S 2 | 23 S 7 | 1 S 26 | 15 S 58 | 2 S 4 | 18 S 58 | 11 29 |
| 4 | 0 5 | 23 18 | 1 27 | 14 53 | 1 9 | 17 18 | 11 19 |
| 7 | 0 7 | 23 27 | 1 28 | 13 29 | 1 59 | 15 25 | 11 10 |
| 10 | 0 10 | 23 34 | 1 28 | 12 8 | 1 5 | 18 19 | 11 0 |
| 13 | 0 12 | 23 39 | 1 28 | 10 47 | 1 14 | 11 2 | 10 51 |
| 16 | 0 15 | 23 42 | 1 27 | 9 21 | 0 48 | 8 37 | 10 41 |
| 19 | 0 18 | 23 44 | 1 26 | 7 55 | 0 15 | 6 8 | 10 32 |
| 22 | 0 21 | 23 43 | 1 23 | 6 23 | 0 N 23 | 3 41 | 10 22 |
| 25 | 0 23 | 23 41 | 1 21 | 4 56 | 1 5 | 1 25 | 10 13 |
| 28 | 0 25 | 23 39 | 1 19 | 3 23 | 1 48 | 0 N 31 | 10 3 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|-----|-----|---|---|-----|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 4 12 | 10 8 | 19 52 | 20 42 | 12 49 | ♀ * ♂ | ☐ | | | | | ☐ | ☐ |
| 2 | 4 19 | 10 6 | 20 33 | 21 58 | 14 34 | | | | | | | | |
| 3 | 4 26 | 10 5 | 21 14 | 23 13 | 16 20 | | * ☉ | * * | | | | ♂ * | * |
| 4 | 4 33 | 10 3 | 21 56 | 24 28 | 18 7 | | | | | | | ♂ * | * |
| 5 | 4 40 | 10 1 | 22 37 | 25 43 | 19 54 | ♀ ☐ ♀ | | | | | | | |
| 6 | 4 47 | 9 59 | 23 18 | 26 58 | 21 42 | | | | | | ☐ | | |
| 7 | 4 54 | 9 57 | 24 0 | 28 13 | 23 31 | ♀ * ♂ | | | | | | | |
| 8 | 5 1 | 9 54 | 24 41 | 29 29 | 25 20 | ♀ ☐ ♀ | | * | ♂ Δ | | | * | |
| 9 | 5 8 | 9 51 | 25 23 | 0 44 | 27 9 | | ♂ | | | | | * | ♂ |
| 10 | 5 15 | 9 48 | 26 5 | 1 59 | 28 59 | | | ☐ | | | | ♂ | ♂ |
| 11 | 5 22 | 9 45 | 26 46 | 3 14 | 0 49 | | | | | | | | |
| 12 | 5 29 | 9 42 | 27 28 | 4 29 | 2 38 | | | | | | | ☐ | |
| 13 | 5 36 | 9 38 | 28 10 | 5 44 | 4 27 | | | Δ | * | ♂ | | | |
| 14 | 5 43 | 9 34 | 28 51 | 6 59 | 6 16 | ♀ ☐ ☿ | * | | | | | Δ | * |
| 15 | 5 50 | 9 30 | 29 33 | 8 14 | 8 4 | ♀ ☐ ☿ | | | ☐ | | | Δ | * |
| 16 | 5 57 | 9 26 | 0 15 | 9 29 | 9 51 | ♀ ☉ ♀ | | | | | | | |
| 17 | 6 4 | 9 22 | 0 56 | 10 44 | 11 37 | | ☐ | ♂ | Δ | | | | |
| 18 | 6 11 | 9 18 | 1 38 | 11 59 | 13 21 | | | | | Δ | | ☐ | ☐ |
| 19 | 6 17 | 9 14 | 2 20 | 13 14 | 15 3 | | Δ | | | | ♂ | Δ | Δ |
| 20 | 6 24 | 9 9 | 3 14 | 14 29 | 16 42 | | | | | ☐ | | Δ | Δ |
| 21 | 6 31 | 8 4 | 3 43 | 15 44 | 18 17 | | | Δ | ♂ | | | | |
| 22 | 6 37 | 8 59 | 4 25 | 16 58 | 19 49 | | | | | * | | | |
| 23 | 6 44 | 8 54 | 5 6 | 18 13 | 21 17 | ♂ * ☿ | ♂ | ☐ | | | Δ | | |
| 24 | 6 51 | 8 49 | 5 48 | 19 28 | 23 39 | | | | | | | ♂ | |
| 25 | 6 57 | 8 44 | 6 30 | 20 42 | 25 56 | ☉ * ♂ | | | | | | | ♂ |
| 26 | 7 4 | 8 39 | 7 11 | 21 57 | 25 6 | ☉ ☐ ☿ | | * | Δ | ♂ | ☐ | | |
| 27 | 7 10 | 8 33 | 7 53 | 23 12 | 26 10 | | | | | | | * | |
| 28 | 7 16 | 8 27 | 8 35 | 24 27 | 27 7 | ♂ ☐ ♀ | Δ | | ☐ | | * | | |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 S 27 | 23 S 35 | 1 S 17 | 2 S 53 | 2 N 3 | 1 N 3 | 10 0 |
| 4 | 0 30 | 23 29 | 1 12 | 1 20 | 2 42 | 2 17 | 9 51 |
| 7 | 0 33 | 23 20 | 1 8 | 0 N 13 | 3 14 | 2 51 | 9 41 |
| 10 | 0 36 | 23 9 | 1 3 | 1 46 | 3 33 | 2 43 | 9 32 |
| 13 | 0 39 | 22 56 | 0 58 | 3 19 | 3 30 | 1 55 | 9 22 |
| 16 | 0 42 | 22 42 | 0 52 | 4 51 | 3 22 | 0 38 | 9 13 |
| 19 | 0 46 | 22 26 | 0 45 | 6 22 | 2 51 | 0 S 55 | 9 3 |
| 22 | 0 49 | 22 9 | 0 38 | 7 53 | 2 11 | 2 26 | 8 54 |
| 25 | 0 52 | 21 48 | 0 31 | 9 21 | 1 25 | 3 45 | 8 44 |
| 28 | 0 55 | 21 26 | 0 25 | 10 57 | 0 39 | 4 44 | 8 35 |
| 31 | 0 59 | 21 1 | 0 17 | 12 14 | 0 S 5 | 5 20 | 8 25 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ | ♂ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 7 22 | 8 21 | 9 17 | 25 41 | 27 55 | | | | | | | Δ | Δ |
| 2 | 7 29 | 8 15 | 9 59 | 26 56 | 28 35 | | ☐ | ☿ | * | * | | | |
| 3 | 7 35 | 8 8 | 10 41 | 28 10 | 29 6 | | | | | | | | |
| 4 | 7 41 | 8 2 | 11 23 | 29 25 | 29 29 | | | | | | | ☐ | ☐ |
| 5 | 7 48 | 7 55 | 12 5 | 0 39 | 29 43 | | * | | | ☐ | ♂ | | |
| 6 | 7 55 | 7 49 | 12 47 | 1 54 | 29 47 | h Δ 4 | | | | | | | * |
| 7 | 8 0 | 7 42 | 13 29 | 3 8 | 30 42 | | | * | ♂ | Δ | | * | * |
| 8 | 8 6 | 7 35 | 14 11 | 4 23 | 29 28 | | | | | | | | |
| 9 | 8 12 | 7 28 | 14 53 | 5 37 | 29 6 | | | | | | | | |
| 10 | 8 18 | 7 21 | 15 35 | 6 52 | 28 87 | ♀ Δ h | | ☐ | | | * | | |
| 11 | 8 24 | 7 14 | 16 17 | 8 6 | 28 1 | ♀ * h | ♂ | | | | | | ♂ |
| 12 | 8 30 | 7 7 | 16 59 | 9 21 | 27 19 | ♀ ♂ 4 | | Δ | * | ♂ | | ♂ | ♂ |
| 13 | 8 36 | 7 0 | 17 41 | 10 35 | 26 30 | | | | | | | | |
| 14 | 8 41 | 6 53 | 18 23 | 11 49 | 25 38 | 4 * h | | | ☐ | | | | |
| 15 | 8 47 | 6 46 | 19 5 | 13 4 | 24 44 | ☉ ♂ ♀ | | | | | Δ | | |
| 16 | 8 52 | 6 39 | 19 47 | 14 18 | 23 49 | | * | | | | | | * |
| 17 | 8 58 | 6 31 | 20 29 | 15 32 | 22 54 | | | ♂ | Δ | Δ | | * | ☐ |
| 18 | 9 4 | 6 24 | 21 11 | 16 46 | 21 58 | | ☐ | | | | | | |
| 19 | 9 10 | 6 16 | 21 54 | 18 0 | 21 3 | ♂ * ♂ | | | | ☐ | | | |
| 20 | 9 15 | 6 9 | 22 36 | 19 14 | 20 12 | | Δ | | | | ♂ | ☐ | Δ |
| 21 | 9 21 | 6 1 | 23 18 | 20 28 | 19 27 | | | Δ | ♂ | * | | | |
| 22 | 9 26 | 5 54 | 24 0 | 21 42 | 18 47 | | | | | | | Δ | |
| 23 | 9 32 | 5 46 | 24 42 | 22 56 | 18 12 | | | ☐ | | | | | |
| 24 | 9 37 | 5 38 | 25 24 | 24 10 | 17 41 | | | | | | Δ | | ♂ |
| 25 | 9 42 | 5 30 | 26 7 | 25 24 | 17 13 | ♀ ☐ ♂ | ♂ | * | Δ | ♂ | | | |
| 26 | 9 47 | 5 23 | 26 49 | 26 38 | 16 52 | ☉ ♂ 4 | | | | | ☐ | ♂ | |
| 27 | 9 52 | 5 15 | 27 31 | 27 52 | 16 38 | | | | ☐ | | | | |
| 28 | 9 57 | 5 8 | 28 13 | 29 6 | 16 31 | ☉ Δ h | | | | | | | Δ |
| 29 | 10 2 | 5 0 | 28 55 | 0 8 | 19 16 | D 29 | | | | * | * | | |
| 30 | 10 7 | 4 52 | 29 37 | 1 33 | 16 32 | | Δ | ♂ | * | | | | ☐ |
| 31 | 10 12 | 4 44 | 0 19 | 2 47 | 16 40 | | | | | | | | |

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 1 | 0 N 7 | 21 8 21 | 0 33 | 18 8 18 | 1 N 37 | 0 8 21 |
| 4 | 16 | 0 | 0 7 | 21 20 | 0 33 | 18 9 | 1 37 | 0 12 |
| 7 | 16 | 59 | 0 7 | 21 19 | 0 33 | 18 6 | 1 36 | 0 9 |
| 10 | 16 | 58 | 0 7 | 21 18 | 0 33 | 18 8 | 1 36 | 0 N 5 |
| 13 | 16 | 58 | 0 7 | 21 17 | 0 34 | 18 1 | 1 36 | 0 13 |
| 16 | 16 | 57 | 0 7 | 21 17 | 0 34 | 17 58 | 1 36 | 0 20 |
| 19 | 16 | 56 | 0 7 | 21 16 | 0 35 | 17 56 | 1 35 | 0 28 |
| 22 | 16 | 56 | 0 7 | 21 16 | 0 35 | 17 53 | 1 35 | 0 35 |
| 25 | 16 | 55 | 0 7 | 21 15 | 0 36 | 17 51 | 1 34 | 0 42 |
| 28 | 16 | 54 | 0 7 | 21 14 | 0 36 | 17 49 | 1 34 | 0 49 |

| D
M | D
W | Sidereal
Time. | ☾
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ☾
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 0 35 56 | 10 53 33 | 4 N 16 | 8 W 34 | 0 8 2 | 23 8 14 | 6 4 46 |
| 2 | S | 0 39 52 | 11 52 38 | 4 20 26 | 1 4 23 | 55 | 6 4 46 | |
| 3 | M | 0 43 49 | 12 51 42 | 5 5 2 14 | 2 4 21 | 41 | 6 4 44 | |
| 4 | Tu | 0 47 46 | 13 50 44 | 5 14 2 | 3 55 19 | 28 | 6 4 43 | |
| 5 | W | 0 51 42 | 14 49 46 | 5 51 25 | 57 | 8 44 16 | 24 | 6 4 42 |
| 6 | Th | 0 55 39 | 15 48 48 | 6 14 | | 11 12 36 | 6 4 41 | |
| 7 | F | 0 59 36 | 16 47 40 | 6 36 | | 17 8 14 | 6 39 | |
| 8 | S | 1 3 32 | 17 46 35 | 6 59 | | 0 8 26 | 6 38 | |
| 9 | S | 1 7 29 | 18 45 28 | 7 21 | | 17 1 N 34 | 6 36 | |
| 10 | M | 1 11 25 | 19 44 19 | 7 44 | | 10 6 35 | 6 34 | |
| 11 | Tu | 1 15 22 | 20 43 9 | 8 6 11 | 5 52 | 4 7 11 | 29 | 6 33 |
| 12 | W | 1 19 18 | 21 41 56 | 8 28 25 | 18 | 3 20 15 | 52 | 6 31 |
| 13 | Th | 1 23 15 | 22 40 40 | 8 50 8 | 15 4 | 2 21 19 | 29 | 6 29 |
| 14 | F | 1 27 11 | 23 39 23 | 9 12 23 | 39 | 1 13 22 | 2 | 6 27 |
| 15 | S | 1 31 8 | 24 38 3 | 9 33 6 | 31 | 0 0 23 | 18 | 6 25 |
| 16 | S | 1 35 4 | 25 36 41 | 9 59 20 | 30 | 1 N 13 23 | 6 | 6 24 |
| 17 | M | 1 39 0 | 26 35 17 | 10 16 4 | 27 | 2 23 21 | 26 | 6 22 |
| 18 | Tu | 1 42 56 | 27 33 50 | 10 37 18 | 49 | 3 25 18 | 26 | 6 21 |
| 19 | W | 1 46 52 | 28 32 22 | 11 58 8 | 7 6 | 4 14 14 | 19 | 6 19 |
| 20 | Th | 1 50 48 | 29 30 51 | 11 19 17 | 24 | 4 47 9 | 23 | 6 18 |
| 21 | F | 1 54 44 | 0 29 17 | 11 39 1 | 38 | 5 2 3 | 58 | 6 16 |
| 22 | S | 1 58 41 | 1 27 42 | 12 0 15 | 44 | 4 59 1 | 36 | 6 14 |
| 23 | S | 2 2 36 | 2 26 5 | 12 20 29 | 37 | 4 38 7 | 1 | 6 12 |
| 24 | M | 2 6 35 | 3 24 27 | 13 40 18 | 14 | 4 1 11 | 39 | 6 10 |
| 25 | Tu | 2 10 32 | 4 22 46 | 13 6 26 | 34 | 3 12 16 | 16 | 6 8 |
| 26 | W | : | : | : | : | : | : | : |
| 27 | Th | : | : | : | : | : | : | : |
| 28 | F | : | : | : | : | : | : | : |
| 29 | S | : | : | : | : | : | : | : |
| 30 | S | : | : | : | : | : | : | : |

| 1815.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | 9 |
|-----------------|------------|-----------------------------------|------------|------------|------------|------------|-----------------|------------|--|--|--|---|
| APRIL XXX DAYS. | | | | | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | |
| 1 | 1 S 0 | 20 S 56 | 0 S 13 | 12 N 39 | 0 S 18 | 5 S 27 | 8 21 | | | | | |
| 4 | 1 4 | 20 30 | 0 5 | 13 59 | 0 56 | 5 34 | 8 11 | | | | | |
| 7 | 1 8 | 20 4 | 0 N 3 | 15 17 | 1 28 | 5 21 | 8 2 | | | | | |
| 10 | 1 12 | 19 35 | 0 11 | 16 29 | 1 54 | 4 48 | 7 52 | | | | | |
| 13 | 1 15 | 19 6 | 0 20 | 17 42 | 2 15 | 3 59 | 7 43 | | | | | |
| 16 | 1 19 | 18 34 | 0 28 | 18 46 | 2 30 | 2 55 | 7 33 | | | | | |
| 19 | 1 23 | 18 3 | 0 36 | 19 51 | 2 40 | 1 38 | 7 24 | | | | | |
| 22 | 1 27 | 17 30 | 0 45 | 20 46 | 2 45 | 0 8 | 7 14 | | | | | |
| 25 | 1 30 | 16 55 | 0 53 | 21 41 | 2 45 | 1 N 33 | 7 5 | | | | | |
| 28 | 1 34 | 16 20 | 1 2 | 22 26 | 2 39 | 3 25 | 6 55 | | | | | |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|------------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|--|
| | Long. | Long. | Long. | Long. | Long. | ☉ | | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | | |
| 1 | 10m 16 | 4 36 | 1m 2 | 4 0 | 16 55 | ☉ * h | ☐ | | | ☐ | | Δ | * | |
| 2 | 10 21 | 4 R 29 | 1 44 | 5 14 | 17 14 | | | | | | | | * | |
| 3 | 10 25 | 4 21 | 2 26 | 6 27 | 17 38 | | | * | | ♈ | ♈ | ☐ | | |
| 4 | 10 30 | 4 13 | 3 8 | 7 40 | 18 5 | | * | | ♈ | | | | | |
| 5 | 10 34 | 4 5 | 3 50 | 8 53 | 18 37 | ♈ Δ ♈ | | | | | | | | |
| 6 | 10 38 | 3 53 | 4 32 | 10 7 | 19 14 | ♀ ☐ h | | ☐ | | | | * | | |
| 7 | 10 42 | 3 50 | 5 15 | 11 20 | 19 55 | | | | | | | | ♈ | |
| 8 | 10 46 | 3 43 | 5 57 | 12 34 | 20 40 | | | Δ | | ♈ | * | | | |
| 9 | 10 50 | 3 35 | 6 39 | 13 47 | 21 28 | ♈ * ☿ | ♈ | | * | | | | | |
| 10 | 10 54 | 3 28 | 7 21 | 15 0 | 22 18 | | | ♈ | | * | | | | |
| 11 | 10 58 | 3 21 | 8 3 | 16 14 | 23 12 | | | | | ☐ | | ♈ | * | |
| 12 | 11 2 | 3 14 | 8 45 | 17 27 | 24 9 | | | | | | | | * | |
| 13 | 11 6 | 3 7 | 9 28 | 18 40 | 25 10 | | | ♈ | Δ | Δ | Δ | | | |
| 14 | 11 9 | 3 0 | 10 10 | 19 53 | 26 14 | | * | | | | | | ☐ | |
| 15 | 11 13 | 2 54 | 10 52 | 21 6 | 27 19 | | | | | ☐ | | | | |
| 16 | 11 16 | 2 47 | 11 34 | 22 19 | 28 26 | ♈ ☉ h | ☐ | | Δ | ♈ | * | | Δ | |
| 17 | 11 20 | 2 41 | 12 16 | 23 32 | 29 36 | | | | | | | ♈ | | |
| 18 | 11 23 | 2 34 | 12 58 | 24 45 | 0 49 | | | | | | | ♈ | ☐ | |
| 19 | 11 26 | 2 28 | 13 41 | 25 57 | 2 4 | ♀ ♈ ♈ | Δ | ☐ | | | | | | |
| 20 | 11 29 | 2 22 | 14 23 | 27 10 | 3 22 | | | | | | | | | |
| 21 | 11 32 | 2 16 | 15 5 | 28 22 | 4 41 | | | * | | ♈ | | Δ | ♈ | |
| 22 | 11 35 | 2 10 | 15 47 | 29 35 | 6 2 | | | | Δ | | Δ | | | |
| 23 | 11 38 | 2 4 | 16 29 | 0 48 | 7 25 | ♀ Δ ☿ | ♈ | | | | | | | |
| 24 | 11 41 | 1 58 | 17 11 | 2 1 | 8 50 | ♀ Δ ♈ | | | ☐ | | ☐ | | | |
| 25 | 11 44 | 1 52 | 17 53 | 3 13 | 10 18 | | | | | * | | | | |
| 26 | 11 46 | 1 46 | 18 35 | 4 25 | 11 48 | ♀ * h | | ♈ | * | | | ♈ | Δ | |
| 27 | 11 49 | 1 41 | 19 17 | 5 38 | 13 19 | | | | | | * | | | |
| 28 | 11 51 | 1 36 | 19 59 | 6 50 | 14 52 | ♀ ♈ ☿ | Δ | | | ☐ | | | | |
| 29 | 11 54 | 1 31 | 20 41 | 8 2 | 16 27 | | | | | | | | ☐ | |
| 30 | 11 46 | 1 26 | 21 23 | 9 15 | 18 4 | | | | | Δ | | | | |

| 10 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1815.] | |
|----------------|-------------------|-----------------------------------|-----------|------------|---------|-------------|------------|-----------|-------------|------------|---------|---------|---|
| MAY XXXI DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° |
| 1 | 15 | 54 | 0 N 7 | 21 S 12 | 0 S 37 | 17 S 48 | 1 N 33 | 0 N 53 | | | | | |
| 4 | 15 | 54 | 0 7 | 21 11 | 0 37 | 17 47 | 1 33 | 0 58 | | | | | |
| 7 | 15 | 53 | 0 7 | 21 10 | 0 37 | 17 46 | 1 32 | 1 2 | | | | | |
| 10 | 15 | 52 | 0 7 | 21 8 | 0 37 | 17 45 | 1 31 | 1 4 | | | | | |
| 13 | 15 | 51 | 0 7 | 21 7 | 0 38 | 17 44 | 1 30 | 1 8 | | | | | |
| 16 | 15 | 51 | 0 7 | 21 6 | 0 38 | 17 44 | 1 30 | 1 10 | | | | | |
| 19 | 15 | 50 | 0 7 | 21 5 | 0 39 | 17 44 | 1 29 | 1 12 | | | | | |
| 22 | 15 | 50 | 0 7 | 21 4 | 0 39 | 17 44 | 1 29 | 1 13 | | | | | |
| 25 | 15 | 49 | 0 7 | 21 3 | 0 40 | 17 45 | 1 28 | 1 13 | | | | | |
| 28 | 15 | 49 | 0 7 | 21 2 | 0 40 | 17 46 | 1 28 | 1 12 | | | | | |
| 31 | 15 | 48 | 0 7 | 21 1 | 0 40 | 17 47 | 1 28 | 1 11 | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | | ☉
Declin | ☿
Long. | ☿
Lat. | ☿
Declin | ♃
Long. | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | M | 2 | 34 | 9 | 10 8 | 12 8 | 14 N 54 | 10 m 4 | 2 S 55 | 20 S 33 | 5 7 56 | | |
| 2 | Tu | 2 | 38 | 6 | 11 | 10 17 | 15 12 | 21 55 | 3 44 | 17 44 | 5 15 54 | | |
| 3 | W | 2 | 42 | 2 | 12 | 8 24 | 15 30 | 3 52 | 4 23 | 14 10 | 5 52 | | |
| 4 | Th | 2 | 45 | 59 | 13 | 6 30 | 15 47 | 16 0 | 4 50 | 9 58 | 5 50 | | |
| 5 | F | 2 | 49 | 55 | 14 | 4 35 | 16 5 | 28 23 | 5 5 | 5 18 | 5 48 | | |
| 6 | S | 2 | 53 | 52 | 15 | 2 38 | 16 22 | 11 7 3 | 5 5 | 0 18 | 5 46 | | |
| 7 | S | 2 | 57 | 48 | 16 | 0 40 | 16 39 | 24 3 | 4 50 | 4 N 50 | 5 44 | | |
| 8 | M | 3 | 1 | 45 | 16 | 58 41 | 16 55 | 7 8 21 | 4 20 | 9 53 | 5 41 | | |
| 9 | Tu | 3 | 5 | 42 | 17 | 56 39 | 17 12 | 20 57 | 3 33 | 14 35 | 5 39 | | |
| 10 | W | 3 | 9 | 38 | 18 | 54 37 | 17 28 | 4 11 47 | 2 34 | 18 35 | 5 36 | | |
| 11 | Th | 3 | 13 | 35 | 19 | 52 33 | 17 44 | 18 48 | 1 24 | 21 35 | 5 33 | | |
| 12 | F | 3 | 17 | 31 | 20 | 50 27 | 17 59 | 25 57 | 0 9 | 23 17 | 5 31 | | |
| 13 | S | 3 | 21 | 28 | 21 | 48 19 | 18 14 | 17 10 | 1 N 8 | 23 29 | 5 28 | | |
| 14 | S | 3 | 25 | 24 | 22 | 46 9 | 18 29 | 1 52 23 | 2 20 | 22 9 | 5 25 | | |
| 15 | M | 3 | 29 | 21 | 23 | 43 58 | 18 43 | 15 36 | 3 24 | 19 26 | 5 23 | | |
| 16 | Tu | 3 | 33 | 17 | 24 | 41 45 | 18 58 | 29 46 | 4 15 | 15 33 | 5 21 | | |
| 17 | W | 3 | 37 | 14 | 25 | 39 31 | 19 12 | 18 51 | 4 51 | 10 50 | 5 18 | | |
| 18 | Th | 3 | 41 | 11 | 26 | 37 14 | 19 25 | 27 49 | 5 9 | 5 35 | 5 16 | | |
| 19 | F | 3 | 45 | 7 | 27 | 34 56 | 19 38 | 11 39 | 5 8 | 0 7 | 5 13 | | |
| 20 | S | 3 | 49 | 4 | 28 | 32 36 | 19 51 | 25 19 | 4 50 | 5 S 18 | 5 11 | | |
| 21 | S | 3 | 53 | 0 | 29 | 30 15 | 20 4 | 8 m 46 | 4 17 | 10 23 | 5 9 | | |
| 22 | M | 3 | 56 | 57 | 0 11 | 27 53 | 20 16 | 21 59 | 3 30 | 14 54 | 5 7 | | |
| 23 | Tu | 4 | 0 | 53 | 1 | 25 29 | 20 28 | 4 7 56 | 2 33 | 18 38 | 5 4 | | |
| 24 | W | 4 | 4 | 50 | 2 | 23 42 | 20 40 | 17 37 | 1 29 | 21 25 | 5 1 | | |
| 25 | Th | 4 | 8 | 46 | 3 | 20 38 | 20 51 | 0 7 2 | 0 22 | 23 6 | 4 59 | | |
| 26 | F | 4 | 12 | 43 | 4 | 18 11 | 21 2 | 12 15 | 0 S 45 | 23 38 | 4 55 | | |
| 27 | S | 4 | 16 | 40 | 5 | 15 43 | 21 12 | 24 16 | 1 49 | 23 4 | 4 53 | | |
| 28 | S | 4 | 20 | 36 | 6 | 13 15 | 21 22 | 6 m 9 | 2 47 | 21 28 | 4 50 | | |
| 29 | M | 4 | 24 | 33 | 7 | 10 45 | 21 32 | 18 0 | 3 38 | 18 56 | 4 48 | | |
| 30 | Tu | 4 | 28 | 29 | 8 | 8 14 | 21 41 | 29 52 | 4 20 | 15 35 | 4 46 | | |
| 31 | W | 4 | 32 | 26 | 9 | 5 43 | 21 50 | 11 49 | 4 51 | 11 37 | 4 44 | | |

1

DM

1

4

7

10

14

16

18

23

24

26

31

DM

1

2

3

4

6

7

8

9

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

DM

1

2

3

4

5

6

7

8

9

10

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 7 | 21 S 0 | 0 S 41 | 17 S 47 | 1 N 26 | 1 N 11 |
| 4 | 15 | 48 | 0 7 | 20 59 | 0 41 | 17 48 | 1 25 | 1 9 |
| 7 | 15 | 47 | 0 7 | 20 57 | 0 42 | 17 50 | 1 24 | 1 7 |
| 10 | 15 | 47 | 0 7 | 20 55 | 0 42 | 17 52 | 1 24 | 1 4 |
| 13 | 15 | 46 | 0 7 | 20 54 | 0 43 | 17 54 | 1 23 | 1 1 |
| 16 | 15 | 46 | 0 7 | 20 53 | 0 43 | 17 56 | 1 22 | 0 56 |
| 19 | 15 | 46 | 0 7 | 20 52 | 0 44 | 17 58 | 1 21 | 0 51 |
| 22 | 15 | 46 | 0 7 | 20 51 | 0 44 | 18 1 | 1 21 | 0 45 |
| 25 | 15 | 46 | 0 7 | 20 49 | 0 44 | 18 4 | 1 20 | 0 39 |
| 28 | 15 | 45 | 0 7 | 20 48 | 0 44 | 18 7 | 1 20 | 0 32 |

| D
M | D
W | Siderea ^l
Time. | | | ☉
Long. | | | ☉
Declin | | | ♂
Long. | | | ♂
Lat. | | | ♂
Declin | | | ♂
Long. | | |
|--------|--------|-------------------------------|----|----|------------|----|---------|-------------|----|-------|------------|----|----|-----------|----|---|-------------|---|---|------------|---|---|
| | | H. | M. | s. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | Th | 4 | 36 | 22 | 10 | 11 | 3 12 | 21 | N | 59 | 23 | 58 | 5 | S | 10 | 7 | S | 8 | 4 | 42 | | |
| 2 | F | 4 | 40 | 19 | 11 | 0 | 39 22 | 7 | | 6 | 22 | 5 | 15 | 2 | 17 | | | | 4 | 40 | | |
| 3 | S | 4 | 44 | 15 | 11 | 58 | 6 22 | 15 | 19 | 5 | 5 | 4 | 2 | N | 47 | | | | 4 | 37 | | |
| 4 | S | 4 | 48 | 12 | 12 | 55 | 33 22 | 22 | 22 | 28 | 10 | 4 | 38 | 7 | 53 | | | | 4 | 35 | | |
| 5 | M | 4 | 52 | 9 | 13 | 52 | 59 22 | 29 | 15 | 88 | 3 | 36 | 12 | 46 | | | | | 4 | 33 | | |
| 6 | Tu | 4 | 56 | 5 | 14 | 50 | 24 22 | 36 | 29 | 28 | 2 | 59 | 17 | 9 | | | | | 4 | 31 | | |
| 7 | W | 5 | 0 | 2 | 15 | 47 | 48 22 | 42 | 13 | 11 38 | 1 | 50 | 20 | 88 | | | | | 4 | 28 | | |
| 8 | Th | 5 | 3 | 58 | 16 | 45 | 12 22 | 48 | 28 | 3 | 0 | 32 | 22 | 55 | | | | | 4 | 25 | | |
| 9 | F | 5 | 7 | 55 | 17 | 42 | 35 22 | 54 | 12 | 37 | 0 | N | 48 | 23 | 40 | | | | 4 | 23 | | |
| 10 | S | 5 | 11 | 51 | 18 | 39 | 56 22 | 59 | 27 | 16 | 2 | 6 | 22 | 47 | | | | | 4 | 20 | | |
| 11 | S | 5 | 15 | 48 | 19 | 37 | 17 23 | 3 | 11 | 52 | 3 | 15 | 20 | 22 | | | | | 4 | 18 | | |
| 12 | M | 5 | 19 | 44 | 20 | 34 | 37 23 | 8 | 26 | 21 | 4 | 11 | 16 | 41 | | | | | 4 | 15 | | |
| 13 | Tu | 5 | 23 | 41 | 21 | 31 | 56 23 | 12 | 10 | 39 | 4 | 51 | 12 | 4 | | | | | 4 | 13 | | |
| 14 | W | 5 | 27 | 38 | 22 | 29 | 14 23 | 15 | 24 | 43 | 5 | 13 | 6 | 53 | | | | | 4 | 10 | | |
| 15 | Th | 5 | 31 | 34 | 23 | 26 | 31 23 | 18 | 8 | 33 | 5 | 16 | 1 | 26 | | | | | 4 | 8 | | |
| 16 | F | 5 | 35 | 31 | 24 | 23 | 48 23 | 21 | 22 | 7 | 5 | 1 | 3 | S | 59 | | | | 4 | 6 | | |
| 17 | S | 5 | 39 | 27 | 25 | 21 | 3 23 | 23 | 5 | 26 | 4 | 30 | 9 | 6 | | | | | 4 | 2 | | |
| 18 | S | 5 | 43 | 24 | 26 | 18 | 18 23 | 25 | 18 | 30 | 3 | 46 | 13 | 43 | | | | | 4 | 1 | | |
| 19 | M | 5 | 47 | 20 | 27 | 15 | 32 23 | 26 | 1 | 20 | 2 | 51 | 17 | 39 | | | | | 3 | 59 | | |
| 20 | Tu | 5 | 51 | 17 | 28 | 12 | 45 23 | 27 | 13 | 56 | 1 | 48 | 20 | 42 | | | | | 3 | 57 | | |
| 21 | W | 5 | 55 | 13 | 29 | 9 | 59 23 | 28 | 26 | 20 | 0 | 42 | 22 | 43 | | | | | 3 | 55 | | |
| 22 | Th | 5 | 59 | 10 | 0 | 5 | 7 11 23 | 28 | 8 | 33 | 0 | S | 26 | 23 | 37 | | | | 3 | 53 | | |
| 23 | F | 6 | 3 | 7 | 1 | 4 | 23 23 | 28 | 20 | 37 | 1 | 32 | 23 | 24 | | | | | 3 | 51 | | |
| 24 | S | 6 | 7 | 3 | 2 | 1 | 35 23 | 27 | 2 | 34 | 2 | 33 | 22 | 5 | | | | | 3 | 49 | | |
| 25 | S | 6 | 11 | 0 | 2 | 58 | 47 23 | 26 | 14 | 25 | 3 | 27 | 19 | 49 | | | | | 3 | 47 | | |
| 26 | M | 6 | 14 | 56 | 3 | 55 | 59 23 | 24 | 26 | 15 | 4 | 12 | 16 | 43 | | | | | 3 | 45 | | |
| 27 | Tu | 6 | 18 | 53 | 4 | 53 | 11 23 | 22 | 8 | 7 | 4 | 46 | 12 | 56 | | | | | 3 | 43 | | |
| 28 | W | 6 | 22 | 49 | 5 | 50 | 23 23 | 20 | 20 | 5 | 5 | 8 | 8 | 39 | | | | | 3 | 41 | | |
| 29 | Th | 6 | 26 | 46 | 6 | 47 | 36 23 | 17 | 2 | 13 | 5 | 17 | 3 | 58 | | | | | 3 | 39 | | |
| 30 | F | 6 | 30 | 42 | 7 | 44 | 48 23 | 14 | 14 | 35 | 5 | 12 | 0 | N | 58 | | | | 3 | 37 | | |

1
2
3
4
5

6

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 N 6 | 20 S 47 | 0 S 45 | 18 S 10 | 1 N 18 | 0 N 25 |
| 4 | 15 | 45 | 0 6 | 20 46 | 0 45 | 18 13 | 1 18 | 0 17 |
| 7 | 15 | 45 | 0 6 | 20 45 | 0 46 | 18 16 | 1 17 | 0 9 |
| 10 | 15 | 46 | 0 6 | 20 44 | 0 46 | 18 20 | 1 17 | 0 1 |
| 18 | 15 | 46 | 0 6 | 20 44 | 0 47 | 18 23 | 1 16 | 0 S 8 |
| 16 | 15 | 46 | 0 6 | 20 43 | 0 47 | 18 27 | 1 16 | 0 17 |
| 19 | 15 | 46 | 0 6 | 20 43 | 0 47 | 18 31 | 1 15 | 0 27 |
| 22 | 15 | 46 | 0 6 | 20 42 | 0 47 | 18 35 | 1 14 | 0 38 |
| 25 | 15 | 47 | 0 6 | 20 42 | 0 48 | 18 38 | 1 13 | 0 49 |
| 28 | 15 | 47 | 0 6 | 20 41 | 0 48 | 18 42 | 1 13 | 1 0 |
| 31 | 15 | 47 | 0 6 | 20 41 | 0 48 | 18 46 | 1 13 | 1 11 |

| D | D | Siderea' | ☉ | | ☉ | ☾ | ☾ | ☾ | ♃ |
|----|----|----------|-------|----|--------|---------|---------|--------|--------|
| M | W | Time. | Long. | | Declin | Long. | Lat. | Declin | Long. |
| | | H. M. S. | ° | ' | " | ° | ' | ° | ' |
| 1 | S | 6 34 39 | 8 | 42 | 1 | 23 N 11 | 27 r 16 | 4 S 52 | 5 N 58 |
| 2 | S | 6 38 36 | 9 | 39 | 14 | 23 7 | 10 S 19 | 4 16 | 10 53 |
| 3 | M | 6 42 32 | 10 | 36 | 27 | 23 2 | 23 47 | 3 25 | 15 26 |
| 4 | Tu | 6 46 29 | 11 | 33 | 41 | 22 58 | 7 N 41 | 2 21 | 19 18 |
| 5 | W | 6 50 25 | 12 | 30 | 54 | 22 52 | 21 59 | 1 6 | 22 8 |
| 6 | Th | 6 54 22 | 13 | 28 | 8 | 22 49 | 6 S 38 | 0 N 15 | 23 33 |
| 7 | F | 6 58 18 | 14 | 25 | 23 | 22 41 | 21 33 | 1 36 | 23 19 |
| 8 | S | 7 2 15 | 15 | 22 | 37 | 22 35 | 6 S 34 | 2 51 | 21 25 |
| 9 | S | 7 6 11 | 16 | 19 | 51 | 22 28 | 21 33 | 3 54 | 18 2 |
| 10 | M | 7 10 8 | 17 | 17 | 6 | 22 22 | 6 m 23 | 4 41 | 13 31 |
| 11 | Tu | 7 14 5 | 18 | 14 | 20 | 22 13 | 20 56 | 5 8 | 8 19 |
| 12 | W | 7 18 1 | 19 | 11 | 34 | 22 5 | 5 S 9 | 5 16 | 2 47 |
| 13 | Th | 7 21 58 | 20 | 8 | 49 | 21 57 | 18 59 | 5 5 | 2 S 44 |
| 14 | F | 7 25 54 | 21 | 6 | 3 | 21 48 | 2 m 27 | 4 38 | 7 59 |
| 15 | S | 7 29 51 | 22 | 3 | 16 | 21 39 | 15 34 | 3 56 | 12 45 |
| 16 | S | 7 33 47 | 23 | 0 | 30 | 21 30 | 28 22 | 3 4 | 16 50 |
| 17 | M | 7 37 44 | 23 | 57 | 45 | 21 20 | 10 f 55 | 2 4 | 20 4 |
| 18 | Tu | 7 41 40 | 24 | 55 | 0 | 21 10 | 23 15 | 0 58 | 22 19 |
| 19 | W | 7 45 37 | 25 | 52 | 15 | 21 0 | 5 w 24 | 0 S 8 | 23 29 |
| 20 | Th | 7 49 34 | 26 | 49 | 30 | 20 49 | 17 26 | 1 14 | 23 33 |
| 21 | F | 7 53 30 | 27 | 46 | 46 | 20 38 | 29 21 | 2 16 | 22 31 |
| 22 | S | 7 57 27 | 28 | 44 | 3 | 20 26 | 11 m 13 | 3 11 | 20 29 |
| 23 | S | 8 1 23 | 29 | 41 | 20 | 20 14 | 23 4 | 3 58 | 17 35 |
| 24 | M | 8 5 20 | 0 | 38 | 38 | 20 2 | 4 x 54 | 4 35 | 13 59 |
| 25 | Tu | 8 9 16 | 1 | 35 | 56 | 19 49 | 16 48 | 5 0 | 9 49 |
| 26 | W | 8 13 13 | 2 | 33 | 16 | 19 37 | 28 47 | 5 12 | 5 15 |
| 27 | Th | 8 17 9 | 3 | 30 | 37 | 19 23 | 10 r 56 | 5 10 | 0 26 |
| 28 | F | 8 21 6 | 4 | 27 | 58 | 19 10 | 23 17 | 4 54 | 4 N 29 |
| 29 | S | 8 25 3 | 5 | 25 | 21 | 18 56 | 5 S 54 | 4 24 | 9 21 |
| 30 | S | 8 28 59 | 6 | 22 | 45 | 18 42 | 18 52 | 3 40 | 13 55 |
| 31 | M | 8 32 56 | 7 | 20 | 10 | 18 27 | 2 N 13 | 2 43 | 17 53 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 38 2 | 18 42 | 1 N 40 | 15 N 57 | 0 S 58 | 18 N 36 | 8 ♄ 32 |
| 4 | 3 6 | 1 2 | 1 32 | 14 48 | 1 41 | 17 35 | 3 22 |
| 7 | 3 10 | 0 23 | 1 23 | 13 28 | 2 26 | 16 42 | 3 13 |
| 10 | 3 14 | 0 N 14 | 1 12 | 12 9 | 3 10 | 15 59 | 3 3 |
| 13 | 3 18 | 0 51 | 1 3 | 10 50 | 3 51 | 15 29 | 2 54 |
| 16 | 3 22 | 1 26 | 0 50 | 9 32 | 4 25 | 15 15 | 2 44 |
| 19 | 3 25 | 2 2 | 0 38 | 8 4 | 4 48 | 15 17 | 2 35 |
| 22 | 3 28 | 2 36 | 0 23 | 6 40 | 4 57 | 15 34 | 2 25 |
| 25 | 3 32 | 3 8 | 0 8 | 5 14 | 4 50 | 16 3 | 2 16 |
| 28 | 3 35 | 3 38 | 0 S 15 | 3 49 | 4 29 | 16 42 | 2 6 |
| 31 | 3 38 | 4 9 | 0 26 | 2 23 | 3 55 | 17 25 | 1 57 |

| D
M | h
Long. | ♄
Long. | ♅
Long. | ♀
Long. | ♁
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 11 11 | 1 57 | 2 44 | 21 27 | 2 52 | ♁ Δ ♄ | | | | | | Δ | |
| 2 | 11 8 | 2 3 | 3 21 | 22 33 | 3 24 | ♄ Δ ☿ | * | | ☐ | | | | ☐ |
| 3 | 11 4 | 2 9 | 3 58 | 23 39 | 3 51 | ♁ Δ ☿ | | | | | | ☐ | |
| 4 | 11 1 | 2 15 | 4 34 | 24 45 | 4 13 | | | ♄ | Δ | Δ | * | | * |
| 5 | 10 57 | 2 21 | 5 10 | 25 51 | 4 31 | | | | | | | * | |
| 6 | 10 54 | 2 27 | 5 46 | 26 57 | 4 45 | | ☉ | | | ☐ | ☐ | | |
| 7 | 10 50 | 2 34 | 6 21 | 28 3 | 4 54 | | | | | | | | |
| 8 | 10 46 | 2 40 | 6 56 | 29 9 | 4 58 | | | Δ | ♄ | * | Δ | | ☉ |
| 9 | 10 42 | 2 47 | 7 30 | 0 14 | 4 58 | | | | | | | | |
| 10 | 10 38 | 2 54 | 8 5 | 1 19 | 4 53 | | | ☐ | | | | ☉ | |
| 11 | 10 34 | 3 1 | 8 39 | 2 24 | 4 43 | | * | | | | | | |
| 12 | 10 30 | 3 8 | 9 14 | 3 28 | 4 29 | ♀ ☐ ☿ | | * | Δ | ☉ | ♄ | | * |
| 13 | 10 26 | 3 15 | 9 48 | 4 32 | 4 10 | ♄ * ♈ | ☐ | | | | | | |
| 14 | 10 22 | 3 23 | 10 22 | 5 36 | 3 47 | ♁ * ☿ | | | | | | * | ☐ |
| 15 | 10 18 | 3 30 | 10 55 | 6 40 | 3 20 | ♁ Δ ☿ | | | ☐ | | | | |
| 16 | 10 14 | 3 38 | 11 28 | 7 44 | 2 49 | ♁ * ♈ | Δ | ☉ | | * | * | Δ | Δ |
| 17 | 10 10 | 3 45 | 12 1 | 8 47 | 2 15 | | | | * | | Δ | ☐ | |
| 18 | 10 6 | 3 53 | 12 34 | 9 50 | 1 38 | | | | | | | Δ | |
| 19 | 10 1 | 4 1 | 13 6 | 10 53 | 0 58 | | | | | ☐ | | Δ | |
| 20 | 9 57 | 4 9 | 13 38 | 11 55 | 0 16 | | | | | | ☐ | | |
| 21 | 9 53 | 4 18 | 14 9 | 12 57 | 29 33 | | ♄ | * | | Δ | * | | ♄ |
| 22 | 9 48 | 4 26 | 14 41 | 13 59 | 28 52 | ☉ ☉ ♁ | | | ☉ | | * | | |
| 23 | 9 44 | 4 35 | 15 12 | 15 1 | 28 11 | | | | | | | | |
| 24 | 9 40 | 4 43 | 15 44 | 16 3 | 27 31 | | | ☐ | | | | | |
| 25 | 9 35 | 4 52 | 16 15 | 17 4 | 26 51 | | | | | | | ♄ | |
| 26 | 9 31 | 5 1 | 16 45 | 18 4 | 26 19 | | Δ | Δ | | ♄ | | | Δ |
| 27 | 9 26 | 5 10 | 17 15 | 19 4 | 25 43 | ☉ Δ ☿ | | | * | | | | |
| 28 | 9 22 | 5 19 | 17 44 | 20 4 | 25 15 | | ☐ | | | | ☉ | | ☐ |
| 29 | 9 17 | 5 28 | 18 14 | 21 4 | 24 51 | ☉ * ♈ | | | ☐ | | | | |
| 30 | 9 13 | 5 37 | 18 43 | 22 4 | 24 33 | | | | | | | | * |
| 31 | 9 8 | 5 56 | 19 12 | 23 3 | 24 20 | | * | ♄ | | Δ | | Δ | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 N 6 | 20 S 40 | 0 S 49 | 18 S 47 | 1 N 12 | 1 S 15 |
| 4 | 15 | 47 | 0 6 | 20 40 | 0 49 | 18 51 | 1 12 | 1 27 |
| 7 | 15 | 48 | 0 6 | 20 40 | 0 49 | 18 55 | 1 11 | 1 39 |
| 10 | 15 | 49 | 0 6 | 20 40 | 0 49 | 18 59 | 1 11 | 1 51 |
| 13 | 15 | 49 | 0 6 | 20 40 | 0 50 | 19 2 | 1 10 | 2 4 |
| 16 | 15 | 49 | 0 6 | 20 40 | 0 50 | 19 6 | 1 10 | 2 17 |
| 19 | 15 | 50 | 0 6 | 20 40 | 0 50 | 19 9 | 1 10 | 2 30 |
| 22 | 15 | 50 | 0 6 | 20 40 | 0 50 | 19 12 | 1 10 | 2 43 |
| 25 | 15 | 51 | 0 6 | 20 40 | 0 50 | 19 16 | 1 9 | 2 57 |
| 28 | 15 | 51 | 0 6 | 20 41 | 0 50 | 19 19 | 1 9 | 3 10 |
| 31 | 15 | 52 | 0 6 | 20 41 | 0 50 | 19 22 | 1 9 | 3 24 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 8 36 52 | 8 Ω 17 37 | 18 N 13 | 16 ♀ 1 | 1 S 34 | 21 N 10 | 2 ♄ 56 |
| 2 | W | 8 40 49 | 9 15 5 | 17 58 | 0 ♄ 16 | 0 18 | 23 10 | 2 ♄ 55 |
| 3 | Th | 8 44 45 | 10 12 33 | 17 42 | 14 56 | 1 N 2 | 23 39 | 2 55 |
| 4 | F | 8 48 42 | 11 10 3 | 17 26 | 29 55 | 2 19 | 22 27 | 2 55 |
| 5 | S | 8 52 38 | 12 7 35 | 17 11 | 15 ♀ 8 | 3 27 | 19 37 | 2 55 |
| 6 | S | 8 56 35 | 13 5 6 | 16 54 | 0 ♄ 22 | 4 20 | 15 24 | 2 55 |
| 7 | M | 9 0 32 | 14 2 39 | 16 38 | 15 29 | 4 55 | 10 16 | 2 54 |
| 8 | Tu | 9 4 28 | 15 0 13 | 16 21 | 0 ♄ 18 | 5 9 | 4 37 | 2 54 |
| 9 | W | 9 8 25 | 15 57 48 | 16 4 | 14 43 | 5 3 | 1 S 8 | 2 54 |
| 10 | Th | 9 12 21 | 16 55 24 | 15 47 | 28 41 | 4 39 | 6 40 | 2 54 |
| 11 | F | 9 16 18 | 17 53 0 | 15 29 | 12 ♄ 10 | 4 0 | 11 41 | 2 53 |
| 12 | S | 9 20 14 | 18 50 37 | 15 11 | 25 14 | 3 10 | 16 1 | 2 53 |
| 13 | S | 9 24 11 | 19 48 15 | 14 53 | 7 ♄ 56 | 2 11 | 19 29 | 2 53 |
| 14 | M | 9 28 7 | 20 45 54 | 14 35 | 20 19 | 1 8 | 21 59 | 2 D 53 |
| 15 | Tu | 9 32 4 | 21 43 34 | 14 17 | 2 ♄ 29 | 0 3 | 23 24 | 2 53 |
| 16 | W | 9 36 1 | 22 41 15 | 13 58 | 14 29 | 1 S 2 | 23 42 | 2 54 |
| 17 | Th | 9 39 57 | 23 38 57 | 13 39 | 26 22 | 2 2 | 22 54 | 2 54 |
| 18 | F | 9 43 54 | 24 36 40 | 13 20 | 8 ♄ 13 | 2 58 | 21 5 | 2 54 |
| 19 | S | 9 47 50 | 25 34 25 | 13 1 | 20 3 | 3 45 | 18 22 | 2 54 |
| 20 | S | 9 51 47 | 26 32 11 | 12 41 | 1 ♄ 54 | 4 23 | 14 53 | 2 54 |
| 21 | M | 9 55 43 | 27 29 58 | 12 21 | 13 49 | 4 49 | 10 49 | 2 55 |
| 22 | Tu | 9 59 40 | 28 27 47 | 12 1 | 25 48 | 5 3 | 6 18 | 2 55 |
| 23 | W | 10 3 36 | 29 25 38 | 11 41 | 7 ♄ 52 | 5 3 | 1 31 | 2 55 |
| 24 | Th | 10 7 33 | 0 ♄ 23 31 | 11 21 | 20 6 | 4 50 | 3 N 23 | 2 56 |
| 25 | F | 10 11 30 | 1 21 24 | 11 0 | 28 30 | 4 23 | 8 14 | 2 57 |
| 26 | S | 10 15 26 | 2 19 20 | 10 39 | 15 7 | 3 42 | 12 51 | 2 59 |
| 27 | S | 10 19 23 | 3 17 18 | 10 19 | 28 2 | 2 50 | 16 59 | 2 59 |
| 28 | M | 10 23 19 | 4 15 18 | 9 58 | 11 ♀ 17 | 1 47 | 20 23 | 3 0 |
| 29 | Tu | 10 27 16 | 5 13 19 | 9 37 | 24 55 | 0 36 | 22 45 | 3 1 |
| 30 | W | 10 31 12 | 6 11 23 | 9 16 | 8 ♄ 58 | 0 N 38 | 23 49 | 3 2 |
| 31 | Th | 10 35 9 | 7 9 28 | 8 53 | 23 27 | 1 53 | 23 17 | 3 3 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 38 39 | 4 N 19 | 08 31 | 1 N 53 | 38 41 | 17 N 40 | 1 54 |
| 4 | 3 42 | 4 52 | 0 50 | 0 28 | 2 56 | 18 21 | 1 44 |
| 7 | 3 45 | 5 13 | 1 9 | 08 58 | 2 7 | 18 55 | 1 35 |
| 10 | 3 47 | 5 33 | 1 33 | 2 24 | 1 18 | 19 17 | 1 25 |
| 13 | 3 49 | 6 1 | 1 51 | 3 47 | 0 31 | 19 23 | 1 16 |
| 16 | 3 51 | 6 21 | | | | | 1 6 |
| 19 | 3 53 | 6 41 | | | | | 0 57 |
| 22 | 3 55 | 6 55 | | | | | 0 47 |
| 25 | 3 56 | 7 14 | | | | | 0 38 |
| 28 | 3 57 | 7 28 | | | | | 0 28 |
| 31 | 3 58 | 7 40 | | | | | 0 19 |

| D
M | L _h
Long. | M
Long. | S
Long. | F
Long. | V
Long. | Mutual
Aspts. | Lunar Aspects. |
|--------|-------------------------|------------|------------|------------|------------|------------------|----------------|
| | ° / ' | ° / ' | ° / ' | ° / ' | ° / ' | | ☉ M J S V F ♀ |
| 1 | 9 4 | 6 55 | 19 40 | 81 47 | 2 24 | ♂ * ♀ | |
| 2 | 8 59 | 6 42 | 8 25 | 1 21 | D 13 | ☉ ♂ h | |
| 3 | 8 55 | 6 14 | 20 25 | 59 24 | 19 | | |
| 4 | 8 50 | 6 21 | 21 26 | 57 31 | 31 | | |
| 5 | 8 46 | 6 34 | 21 27 | 54 24 | 50 | | |
| 6 | 8 41 | 6 44 | 21 28 | 51 25 | 16 | | |
| 7 | 8 37 | 6 54 | 22 18 | 29 47 | 25 | 49 | |
| 8 | 8 33 | 7 4 | 22 43 | 0 43 | 26 | 27 | |
| 9 | 8 28 | 7 14 | 23 8 | 1 38 | 27 | 13 | |
| 10 | 8 24 | 7 21 | 23 32 | 2 33 | 28 | 6 | |
| 11 | 8 20 | 7 34 | 23 56 | 3 27 | 29 | 8 | |
| 12 | 8 15 | 7 44 | 24 19 | 4 21 | 0 Ω | 8 | |
| 13 | 8 11 | 7 55 | 24 41 | 5 14 | 1 | 20 | |
| 14 | 8 7 | 8 5 | 25 3 | 6 7 | 3 | 37 | |
| 15 | 8 2 | 8 16 | 25 25 | 6 59 | 3 | 59 | |
| 16 | 7 58 | 8 27 | 25 46 | 7 50 | 5 | 26 | |
| 17 | 7 54 | 8 38 | 26 7 | 8 41 | 6 | 58 | |
| 18 | 7 49 | 8 49 | 26 26 | 9 31 | 8 | 34 | |
| 19 | 7 45 | 9 0 | 26 44 | 10 40 | 10 | 15 | |
| 20 | 7 41 | 9 11 | 27 2 | 11 9 | 11 | 59 | |
| 21 | 7 37 | 9 22 | 27 19 | 11 57 | 13 | 46 | |
| 22 | 7 33 | 9 33 | 27 36 | 12 44 | 15 | 36 | |
| 23 | 7 29 | 9 44 | 27 53 | 13 30 | 17 | 29 | |
| 24 | 7 25 | 9 55 | 28 9 | 14 15 | 19 | 22 | |
| 25 | 7 21 | 10 7 | 28 21 | 15 0 | 21 | 19 | |
| 26 | 7 17 | 10 19 | 29 39 | 15 41 | 23 | 16 | |
| 27 | 7 13 | 10 30 | 29 52 | 16 27 | 25 | 13 | |
| 28 | 7 9 | 10 42 | 29 5 | 17 9 | 27 | 11 | |
| 29 | 7 6 | 10 53 | 29 17 | 17 50 | 29 | 10 | |
| 30 | 7 2 | 11 5 | 29 29 | 18 30 | 1 ω | 8 | |
| 31 | 6 58 | 11 16 | 29 40 | 19 9 | 3 | 5 | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 5 | 20 S 42 | 0 S 50 | 19 S 22 | 1 N 8 | 3 S 30 |
| 4 | 15 | 54 | 0 5 | 20 43 | 0 50 | 19 25 | 1 8 | 3 44 |
| 7 | 15 | 55 | 0 5 | 20 44 | 0 51 | 19 28 | 1 7 | 3 58 |
| 10 | 15 | 56 | 0 5 | 20 45 | 0 51 | 19 30 | 1 7 | 4 12 |
| 13 | 15 | 57 | 0 5 | 20 46 | 0 51 | 19 32 | 1 7 | 4 27 |
| 16 | 15 | 57 | 0 5 | 20 46 | 0 51 | 19 34 | 1 7 | 4 42 |
| 19 | 15 | 58 | 0 5 | 20 47 | 0 51 | 19 36 | 1 6 | 4 57 |
| 22 | 15 | 59 | 0 5 | 20 48 | 0 51 | 19 37 | 1 6 | 5 12 |
| 25 | 16 | 0 | 0 5 | 20 49 | 0 51 | 19 38 | 1 6 | 5 27 |
| 28 | 16 | 0 | 0 5 | 20 51 | 0 51 | 19 39 | 1 6 | 5 42 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|----|----|----------------------|-------------|--------------------|-----------|-------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | F | 10 | 39 | 5 | 8 ^m 7 36 | 8 N 32 | 8 Ω 18 | 3 N 2 | 21 N 8 | 3 † 4 |
| 2 | S | 10 | 43 | 2 | 9 5 45 | 8 10 | 23 56 | 3 59 | 17 29 | 3 5 |
| 3 | S | 10 | 46 | 59 | 10 3 56 | 7 48 | 8 ^m 40 | 4 39 | 12 38 | 3 6 |
| 4 | M | 10 | 50 | 55 | 11 2 9 | 7 26 | 23 51 | 5 0 | 7 2 | 3 7 |
| 5 | Tu | 10 | 54 | 52 | 12 0 24 | 7 4 | 8 ^h 48 | 5 0 | 1 6 | 3 8 |
| 6 | W | 10 | 58 | 48 | 12 58 40 | 6 42 | 23 21 | 4 40 | 4 S 45 | 3 10 |
| 7 | Th | 11 | 2 | 45 | 13 56 58 | 6 19 | 7 ^m 27 | 4 3 | 10 10 | 3 11 |
| 8 | F | 11 | 6 | 41 | 14 55 17 | 5 57 | 21 3 | 3 14 | 14' 55 | 3 13 |
| 9 | S | 11 | 10 | 38 | 15 53 37 | 5 34 | 4 † 10 | 2 16 | 18 46 | 3 14 |
| 10 | S | 11 | 14 | 34 | 16 52 0 | 5 11 | 16 52 | 1 13 | 21 36 | 3 16 |
| 11 | M | 11 | 18 | 31 | 17 50 23 | 4 49 | 29 13 | 0 8 | 23 20 | 3 17 |
| 12 | Tu | 11 | 22 | 28 | 18 48 49 | 4 26 | 11 ^m 20 | 0 S 56 | 23 55 | 3 19 |
| 13 | W | 11 | 26 | 24 | 19 47 15 | 4 3 | 23 16 | 1 57 | 23 22 | 3 21 |
| 14 | Th | 11 | 30 | 21 | 20 45 44 | 3 40 | 5 ^m 7 | 2 51 | 21 47 | 3 23 |
| 15 | F | 11 | 34 | 17 | 21 44 14 | 3 17 | 16 56 | 3 38 | 19 15 | 3 25 |
| 16 | S | 11 | 38 | 14 | 22 42 46 | 2 54 | 28 47 | 4 16 | 15 55 | 3 26 |
| 17 | S | 11 | 42 | 10 | 23 41 20 | 2 31 | 10 ^m 42 | 4 43 | 11 55 | 3 28 |
| 18 | M | 11 | 46 | 7 | 24 39 55 | 2 7 | 22 42 | 4 57 | 7 27 | 3 29 |
| 19 | Tu | 11 | 50 | 3 | 25 38 33 | 1 44 | 4 ^r 50 | 4 58 | 2 38 | 3 30 |
| 20 | W | 11 | 54 | 0 | 26 37 12 | 1 21 | 17 6 | 4 46 | 2 N 19 | 3 32 |
| 21 | Th | 11 | 57 | 56 | 27 35 54 | 0 57 | 29 31 | 4 19 | 7 16 | 3 34 |
| 22 | F | 12 | 1 | 53 | 28 34 38 | 0 43 | 12 ^h 6 | 3 40 | 11 59 | 3 36 |
| 23 | S | 12 | 5 | 50 | 29 33 24 | 0 11 | 24 52 | 2 49 | 16 15 | 3 38 |
| 24 | S | 12 | 9 | 46 | 0 ^h 32 12 | 0 S 13 | 7 ^h 51 | 1 49 | 19 51 | 3 40 |
| 25 | M | 12 | 13 | 43 | 1 31 2 | 0 36 | 21 6 | 0 41 | 22 29 | 3 42 |
| 26 | Tu | 12 | 17 | 39 | 2 29 55 | 1 0 | 4 ^h 39 | 0 N 30 | 23 53 | 3 44 |
| 27 | W | 12 | 21 | 36 | 3 28 51 | 1 23 | 18 32 | 1 42 | 23 52 | 3 46 |
| 28 | Th | 12 | 25 | 32 | 4 27 49 | 1 47 | 2 Ω 45 | 2 49 | 22 18 | 3 48 |
| 29 | F | 12 | 29 | 29 | 5 26 49 | 2 10 | 17 18 | 3 46 | 19 15 | 3 50 |
| 30 | S | 12 | 33 | 25 | 6 25 51 | 2 33 | 2 ^m 8 | 4 29 | 14 55 | 3 53 |



OCTOBER XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|---|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N 6 | 20 53 | 0 51 | 19 40 | 1 N 6 | 5 56 |
| 4 | 16 | 1 | 0 5 | 20 54 | 0 51 | 19 41 | 1 6 | 6 11 |
| 7 | 16 | 2 | 0 5 | 20 56 | 0 51 | 19 41 | 1 6 | 6 26 |
| 10 | 16 | 3 | 0 5 | 20 57 | 0 51 | 19 41 | 1 6 | 6 41 |
| 13 | 16 | 4 | 0 5 | 20 58 | 0 51 | 19 41 | 1 5 | 6 56 |
| 16 | 16 | 5 | 0 5 | 20 59 | 0 51 | 19 41 | 1 5 | 7 11 |
| 19 | 16 | 5 | 0 5 | 21 1 | 0 51 | 19 40 | 1 5 | 7 25 |
| 22 | 16 | 6 | 0 5 | 21 3 | 0 51 | 19 40 | 1 5 | 7 40 |
| 25 | 16 | 7 | 0 5 | 21 5 | 0 51 | 19 39 | 1 5 | 7 54 |
| 28 | 16 | 7 | 0 5 | 21 7 | 0 51 | 19 38 | 1 5 | 8 15 |
| 31 | 16 | 8 | 0 5 | 21 9 | 0 51 | 19 36 | 1 5 | 8 22 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 12 37 22 | 7 24 56 | 2 57 | 17 46 | 4 N 55 | 9 N 37 | 3 7 56 |
| 2 | M | 12 41 19 | 8 24 3 | 3 20 | 2 5 | 5 0 | 8 46 | 3 56 |
| 3 | Tu | 12 45 15 | 9 23 12 | 3 16 | 54 | 4 45 | 2 15 | 4 1 |
| 4 | W | 12 49 12 | 10 22 23 | 4 7 | 1 25 | 4 12 | 8 2 | 4 4 |
| 5 | Th | 12 53 6 | 11 21 35 | 4 30 | 15 31 | 3 24 | 13 15 | 4 6 |
| 6 | F | 1 | | 4 53 | 29 10 | 2 25 | 17 38 | 4 9 |
| 7 | S | 1 | | 5 16 | 12 21 | 1 20 | 20 58 | 4 12 |
| 8 | S | 1 | | 5 39 | 25 7 | 0 14 | 23 9 | 4 14 |
| 9 | M | 1 | | 5 2 | 7 31 | 0 5 | 24 7 | 4 17 |
| 10 | Tu | 1 | | 5 25 | 19 36 | 1 54 | 23 54 | 4 20 |
| 11 | W | 13 16 47 | 17 17 31 | 6 48 | 1 36 | 2 50 | 23 35 | 4 23 |
| 12 | Th | 13 20 44 | 18 16 56 | 7 11 | 13 27 | 3 38 | 20 17 | 4 25 |
| 13 | F | 13 24 41 | 19 16 23 | 7 33 | 25 17 | 4 17 | 17 8 | 4 26 |
| 14 | S | 13 28 37 | 20 15 52 | 7 56 | 7 10 | 4 44 | 13 17 | 4 31 |
| 15 | S | 13 32 34 | 21 15 22 | 8 18 | 19 10 | 4 54 | 8 53 | 4 34 |
| 16 | M | 13 36 30 | 22 14 56 | 8 40 | 1 19 | 5 2 | 4 5 | 4 37 |
| 17 | Tu | 13 40 27 | 23 14 31 | 9 2 | 13 38 | 4 50 | 0 N 56 | 4 40 |
| 18 | W | 13 44 23 | 24 14 7 | 9 24 | 26 5 | 4 24 | 6 0 | 4 43 |
| 19 | Th | 13 48 20 | 25 13 46 | 9 46 | 8 50 | 3 46 | 10 54 | 4 46 |
| 20 | F | 13 52 16 | 26 13 27 | 10 6 | 21 43 | 2 53 | 15 21 | 4 49 |
| 21 | S | 13 56 13 | 27 13 10 | 10 30 | 4 47 | 1 52 | 19 17 | 4 52 |
| 22 | S | 14 0 10 | 28 12 55 | 10 51 | 18 2 | 0 44 | 22 11 | 4 55 |
| 23 | M | 14 4 6 | 29 12 42 | 11 12 | 1 25 | 0 N 26 | 23 56 | 4 58 |
| 24 | Tu | 14 8 3 | 0 12 32 | 11 33 | 15 7 | 1 40 | 24 15 | 5 2 |
| 25 | W | 14 11 59 | 1 12 24 | 11 54 | 8 55 | 2 46 | 23 1 | 5 5 |
| 26 | Th | 14 15 56 | 2 12 18 | 12 15 | 13 2 | 3 44 | 20 30 | 5 8 |
| 27 | F | 14 19 52 | 3 12 15 | 12 36 | 27 20 | 4 29 | 16 37 | 5 12 |
| 28 | S | 14 27 49 | 4 12 14 | 12 56 | 11 47 | 4 57 | 11 44 | 5 15 |
| 29 | S | 14 23 45 | 5 12 16 | 13 10 | 26 20 | 5 7 | 6 8 | 5 16 |
| 30 | M | 14 31 42 | 6 12 19 | 13 36 | 10 53 | 4 56 | 0 14 | 5 23 |
| 31 | Tu | 14 36 39 | 7 12 25 | 13 56 | 25 19 | 4 27 | 5 35 | 5 26 |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 5 | 21 S 10 | 0 S 51 | 19 S 35 | 1 N 5 | 8 S 27 |
| 4 | 16 | 10 | 0 5 | 21 12 | 0 51 | 19 33 | 1 5 | 8 41 |
| 7 | 16 | 11 | 0 5 | 21 14 | 0 51 | 19 32 | 1 6 | 8 55 |
| 10 | 16 | 12 | 0 5 | 21 16 | 0 51 | 19 30 | 1 6 | 9 9 |
| 13 | 16 | 12 | 0 5 | 21 17 | 0 51 | 19 27 | 1 6 | 9 22 |
| 16 | 16 | 13 | 0 5 | 21 19 | 0 51 | 19 25 | 1 6 | 9 35 |
| 19 | 16 | 14 | 0 5 | 21 21 | 0 51 | 19 22 | 1 6 | 9 48 |
| 22 | 16 | 14 | 0 5 | 21 22 | 0 51 | 19 19 | 1 6 | 10 1 |
| 25 | 16 | 15 | 0 5 | 21 24 | 0 51 | 19 16 | 1 6 | 10 14 |
| 28 | 16 | 15 | 0 5 | 21 26 | 0 51 | 19 13 | 1 6 | 10 26 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 14 39 35 | 8 ^m 12 32 | 14 S 15 | 9 ^m 33 | 3 N 42 | 11 S 11 | 5 ^f 28 |
| 2 | Th | 14 43 32 | 9 12 41 | 14 35 | 23 27 | 2 44 | 16 1 | 5 31 |
| 3 | F | 14 47 28 | 10 12 52 | 14 54 | 7 ^f 0 | 1 38 | 19 53 | 5 34 |
| 4 | S | 14 51 25 | 11 13 5 | 15 13 | 20 9 | 0 28 | 22 38 | 5 38 |
| 5 | S | 14 55 21 | 12 13 20 | 15 31 | 2 ^w 56 | 0 S 41 | 24 7 | 5 42 |
| 6 | M | 14 59 18 | 13 13 36 | 15 49 | 15 13 | 1 46 | 24 20 | 5 45 |
| 7 | Tu | 15 3 14 | 14 13 53 | 16 8 | 27 33 | 2 45 | 23 23 | 5 49 |
| 8 | W | 15 7 11 | 15 14 12 | 16 25 | 9 ^m 32 | 3 37 | 21 22 | 5 52 |
| 9 | Th | 15 11 8 | 16 14 33 | 16 43 | 21 25 | 4 18 | 18 26 | 5 56 |
| 10 | F | 15 15 4 | 17 14 55 | 17 0 | 3 ^x 16 | 4 48 | 14 48 | 5 59 |
| 11 | S | 15 19 1 | 18 15 18 | 17 17 | 15 11 | 5 6 | 10 32 | 6 2 |
| 12 | S | 15 22 57 | 19 15 43 | 17 34 | 27 14 | 5 11 | 5 51 | 6 5 |
| 13 | M | 15 26 54 | 20 16 9 | 17 50 | 9 ^r 28 | 5 1 | 0 52 | 6 9 |
| 14 | Tu | 15 30 50 | 21 16 36 | 18 6 | 21 56 | 4 38 | 4 N 15 | 6 12 |
| 15 | W | 15 34 47 | 22 17 5 | 18 22 | 4 ^b 40 | 4 0 | 9 19 | 6 16 |
| 16 | Th | 15 38 43 | 23 17 36 | 18 37 | 17 39 | 3 9 | 14 5 | 6 19 |
| 17 | F | 15 42 40 | 24 18 8 | 18 52 | 0 ^π 54 | 2 7 | 18 17 | 6 22 |
| 18 | S | 15 46 37 | 25 18 41 | 19 7 | 14 22 | 0 57 | 21 36 | 6 26 |
| 19 | S | 15 50 33 | 26 19 17 | 19 21 | 28 2 | 0 N 17 | 23 44 | 6 30 |
| 20 | M | 15 54 30 | 27 19 54 | 19 35 | 11 ^σ 52 | 1 32 | 24 28 | 6 34 |
| 21 | Tu | 15 58 26 | 28 20 33 | 19 49 | 25 50 | 2 42 | 23 39 | 6 38 |
| 22 | W | 16 2 23 | 29 21 13 | 20 2 | 9 ^Ω 54 | 3 43 | 21 22 | 6 41 |
| 23 | Th | 16 6 19 | 0 ^f 21 55 | 20 15 | 24 2 | 4 30 | 17 46 | 6 45 |
| 24 | F | 16 10 16 | 1 22 39 | 20 27 | 8 ^m 13 | 5 1 | 13 9 | 6 49 |
| 25 | S | 16 14 12 | 2 23 25 | 20 40 | 22 24 | 5 14 | 7 49 | 6 52 |
| 26 | S | 16 18 9 | 3 24 12 | 20 51 | 6 ^Δ 34 | 5 8 | 2 7 | 6 56 |
| 27 | M | 16 22 6 | 4 25 1 | 21 3 | 20 39 | 4 43 | 3 S 41 | 7 0 |
| 28 | Tu | 16 26 2 | 5 25 52 | 21 14 | 4 ^m 36 | 4 2 | 9 16 | 7 3 |
| 29 | W | 16 29 59 | 6 26 44 | 21 25 | 18 22 | 3 7 | 14 18 | 7 7 |
| 30 | Th | 16 33 55 | 7 27 37 | 21 35 | 1 ^f 53 | 2 3 | 18 34 | 7 11 |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-----------|---------|---------|---------|----------|---------|
| | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 16 | 0 N 4 | 21 8 29 | 0 50 | 19 8 9 | 1 N 7 | 10 8 38 |
| 4 | 16 16 | 0 4 | 21 8 2 | 0 50 | 19 8 5 | 1 7 | 10 49 |
| 7 | 16 16 | 0 4 | 21 8 4 | 0 50 | 19 1 | 1 8 | 11 1 |
| 10 | 16 16 | 0 4 | 21 8 5 | 0 50 | 18 57 | 1 8 | 11 12 |
| 13 | 16 16 | 0 4 | 21 8 6 | 0 51 | 18 53 | 1 8 | 11 23 |
| 16 | 16 16 | 0 4 | 21 8 8 | 0 51 | 18 48 | 1 8 | 11 33 |
| 19 | 16 17 | 0 4 | 21 8 40 | 0 51 | 18 43 | 1 9 | 11 44 |
| 22 | 16 17 | 0 4 | 21 8 41 | 0 51 | 18 39 | 1 9 | 11 54 |
| 25 | 16 17 | 0 4 | 21 8 43 | 0 51 | 18 34 | 1 10 | 12 3 |
| 28 | 16 17 | 0 4 | 21 8 45 | 0 51 | 18 29 | 1 10 | 12 12 |
| 31 | 16 17 | 0 4 | 21 8 47 | 0 51 | 18 25 | 1 10 | 12 21 |

| D
M | Day | Sidereal
Time. | | ☉
Long. | | ☉
Declin. | | ♂
Long. | |
|--------|-----|-------------------|----------|------------|--------|--------------|---------|------------|--|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | | 16 37 52 | 8 4 11 | 21 8 44 | 15 4 9 | 0 N 52 | 21 8 46 | 7 4 15 | |
| 2 | | 16 41 48 | 9 29 27 | 21 54 28 | 7 0 8 | 19 23 | 46 | 7 16 | |
| 3 | | 16 45 45 | 10 30 23 | 21 10 47 | 1 28 | 24 30 | 7 23 | | |
| 4 | | 16 49 41 | 11 31 21 | 22 11 23 | 12 18 | 31 23 | 57 | 7 26 | |
| 5 | | 16 53 38 | 12 32 19 | 22 19 52 | 5 22 | 37 22 | 16 | 7 30 | |
| 6 | W | 16 57 35 | 13 33 18 | 23 17 23 | 4 12 | 19 38 | 7 33 | | |
| 7 | Th | 17 1 31 | 14 34 18 | 23 34 29 | 16 4 | 46 16 | 12 | 7 37 | |
| 8 | F | 17 5 28 | 15 35 18 | 23 41 11 | 8 5 | 8 12 | 19 | 7 41 | |
| 9 | M | 17 9 24 | 16 36 19 | 23 47 28 | 8 5 | 17 7 | 37 | 7 44 | |
| 10 | S | 17 13 21 | 17 37 21 | 23 53 57 | 5 5 | 12 3 | 45 | 7 48 | |
| 11 | M | 17 17 17 | 18 38 22 | 23 59 17 | 30 4 | 53 2 | N 18 | 7 52 | |
| 12 | Tu | 17 21 14 | 19 39 26 | 23 4 29 | 50 4 | 20 7 | 22 | 7 55 | |
| 13 | W | 17 25 10 | 20 40 27 | 23 8 12 | 38 3 | 33 12 | 16 | 7 59 | |
| 14 | Th | 17 29 7 | 21 41 32 | 23 12 25 | 50 2 | 34 16 | 46 | 8 3 | |
| 15 | F | 17 33 4 | 22 42 36 | 23 16 9 | 21 1 | 24 20 | 29 | 8 7 | |
| 16 | S | 17 37 0 | 23 43 41 | 23 19 33 | 12 0 | 8 33 | 10 | 8 10 | |
| 17 | S | 17 40 57 | 24 44 46 | 23 22 7 | 20 1 | N 9 | 24 | 8 14 | |
| 18 | M | 17 44 53 | 25 45 51 | 23 24 21 | 40 2 | 24 24 | 5 | 8 17 | |
| 19 | Tu | 17 48 50 | 26 46 59 | 23 25 6 | 7 3 | 30 22 | 9 | 8 20 | |
| 20 | W | 17 52 46 | 27 48 6 | 23 27 20 | 36 4 | 22 18 | 47 | 8 24 | |
| 21 | Th | 17 56 43 | 28 49 14 | 23 27 5 | 2 4 | 59 14 | 18 | 8 27 | |
| 22 | F | 18 0 39 | 29 50 23 | 23 28 19 | 21 5 | 16 9 | 4 | 8 31 | |
| 23 | S | 18 4 36 | 0 51 32 | 23 28 3 | 30 5 | 13 3 | 24 | 8 34 | |
| 24 | S | 18 8 32 | 1 52 43 | 23 27 17 | 27 4 | 58 11 | 21 | 8 37 | |
| 25 | M | 18 12 29 | 2 53 54 | 23 26 1 | 11 4 | 15 7 | 55 | 8 40 | |
| 26 | Tu | 18 16 26 | 3 55 5 | 23 24 14 | 42 3 | 24 13 | 1 | 8 44 | |
| 27 | W | 18 20 22 | 4 56 17 | 23 22 28 | 1 2 | 23 17 | 25 | 8 48 | |
| 28 | Th | 18 24 19 | 5 57 29 | 23 20 11 | 46 1 | 15 20 | 54 | 8 51 | |
| 29 | F | 18 28 15 | 6 58 40 | 23 17 23 | 58 0 | 4 23 | 16 | 8 54 | |
| 30 | S | 18 32 12 | 7 59 54 | 23 13 6 | 38 1 | 5 24 | 23 | 8 57 | |
| 31 | S | 18 36 8 | 9 1 7 | 23 9 19 | 5 2 | 11 24 | 16 | 9 1 | |

DECEMBER XXXI DAYS.

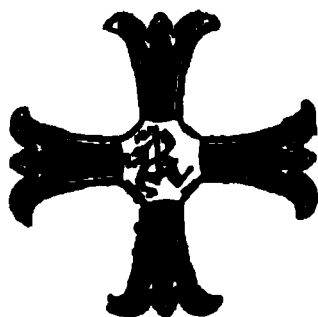
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 5 | 7 N 20 | 1 N 54 | 7 S 81 | 2 N 11 | 15 S 14 | 25 II 26 |
| 4 | 0 12 | 7 40 | 2 12 | 8 10 | 1 54 | 16 30 | 25 17 |
| 7 | 0 19 | 8 0 | 2 24 | 8 50 | 1 33 | 17 49 | 25 7 |
| 10 | 0 25 | 8 22 | 2 37 | 9 37 | 1 11 | 19 7 | 24 58 |
| 13 | 0 30 | 8 45 | 2 46 | 10 21 | 0 49 | 20 20 | 24 48 |
| 16 | 0 35 | 9 10 | 2 53 | 11 11 | 0 26 | 21 26 | 24 39 |
| 19 | 0 40 | 9 35 | 3 1 | 11 58 | 0 4 | 22 25 | 24 29 |
| 22 | 0 45 | 10 3 | 3 5 | 12 43 | 0 S 17 | 23 14 | 24 20 |
| 25 | 0 49 | 10 31 | 3 8 | 13 39 | 0 37 | 23 54 | 24 10 |
| 28 | 0 53 | 11 0 | 3 10 | 14 32 | 0 56 | 24 23 | 23 1 |
| 31 | 0 57 | 11 34 | 3 11 | 15 15 | 1 13 | 24 40 | 23 51 |

| D
M | h | ♄ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|--------|--------|---------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ | ♁ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 7 m 50 | 0 m 34 | 18 r 30 | 23 Δ 54 | 18 m 29 | | | | | | Δ | | |
| 2 | 7 55 | 0 46 | 18 40 | 24 42 | 19 40 | | | | | * | | * | |
| 3 | 8 0 | 0 57 | 18 51 | 25 31 | 20 55 | | | | | | | | |
| 4 | 8 5 | 1 9 | 19 3 | 26 20 | 22 13 | | | | | | □ | □ | * |
| 5 | 8 10 | 1 20 | 19 15 | 27 9 | 23 32 | | | * | ♈ | □ | | | |
| 6 | 8 15 | 1 31 | 19 23 | 27 59 | 24 52 | | * | | | | * | | |
| 7 | 8 20 | 1 42 | 19 41 | 28 50 | 26 14 | | | | | Δ | | Δ | □ |
| 8 | 8 25 | 1 53 | 19 55 | 29 42 | 27 37 | | □ | □ | | | | | |
| 9 | 8 30 | 2 4 | 20 10 | 0 m 35 | 29 2 | | | | | | | | |
| 10 | 8 36 | 2 15 | 20 25 | 1 29 | 0 f 28 | | | Δ | * | | | | Δ |
| 11 | 8 41 | 2 26 | 20 40 | 2 24 | 1 55 | ♀ ☉ ♄ | Δ | | | | ♈ | ♈ | |
| 12 | 8 46 | 2 37 | 20 56 | 3 19 | 3 22 | | | | | ♈ | | ♈ | |
| 13 | 8 52 | 2 47 | 21 13 | 4 15 | 4 50 | ☉ Δ ♂ | | | □ | | | | |
| 14 | 8 57 | 2 58 | 21 30 | 5 11 | 6 18 | ♀ ☉ ☿ | | | | | | | |
| 15 | 9 3 | 3 8 | 21 48 | 6 8 | 7 47 | | | ♈ | Δ | | | | ♈ |
| 16 | 9 9 | 3 19 | 22 6 | 7 5 | 9 17 | ♀ * ♈ | ♈ | | | | * | | |
| 17 | 9 15 | 3 29 | 22 25 | 8 3 | 10 47 | | | | | Δ | | Δ | |
| 18 | 9 21 | 3 40 | 22 44 | 9 1 | 12 17 | ♀ ☉ ♈ | | | | | □ | | |
| 19 | 9 27 | 3 50 | 23 3 | 10 0 | 13 48 | | | Δ | ♈ | □ | | □ | |
| 20 | 9 33 | 4 0 | 23 23 | 10 59 | 15 19 | | | | | | Δ | | Δ |
| 21 | 9 39 | 4 10 | 23 43 | 11 59 | 16 50 | | Δ | □ | | * | | * | |
| 22 | 9 45 | 4 20 | 24 4 | 12 59 | 18 22 | | | | | | | | □ |
| 23 | 9 51 | 4 30 | 24 25 | 14 0 | 19 54 | | □ | * | Δ | | | | |
| 24 | 9 57 | 4 40 | 24 47 | 15 1 | 21 26 | | | | | | | | * |
| 25 | 10 3 | 4 49 | 25 10 | 16 3 | 22 58 | | * | | | ♈ | ♈ | | |
| 26 | 10 10 | 4 59 | 25 32 | 17 5 | 24 31 | ♀ Δ ♂ | | | □ | | | ♈ | |
| 27 | 10 16 | 5 8 | 25 55 | 18 7 | 26 4 | ☉ * ♄ | | | | | | | |
| 28 | 10 23 | 5 17 | 26 18 | 19 10 | 27 37 | | | ♈ | * | | | | |
| 29 | 10 29 | 5 26 | 26 41 | 20 13 | 29 11 | | | | | | Δ | | ♈ |
| 30 | 10 36 | 5 35 | 27 5 | 21 17 | 0 w 45 | | ♈ | | | * | | | |
| 31 | 10 42 | 5 44 | 27 29 | 22 21 | 2 19 | | | | | | | * | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1816.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

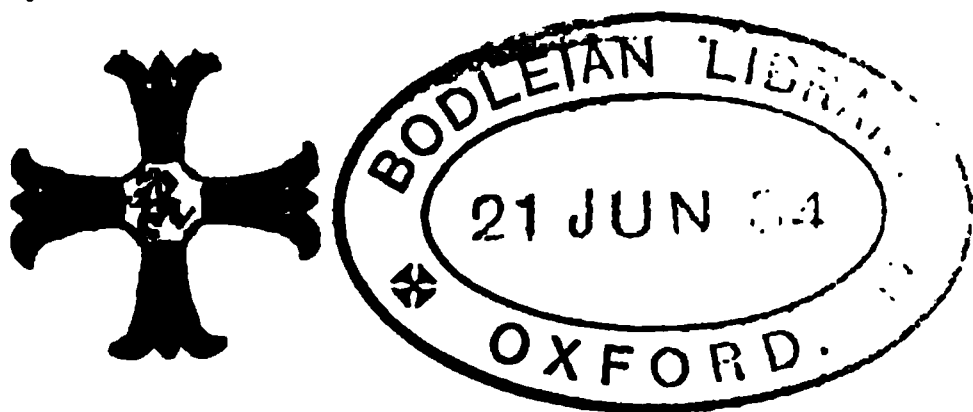
(Ala.) 937 c. 1. 1. 1.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1816.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1888.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' / | ° ' / | ° ' / | ° ' / | ° ' / | ° ' / | |
| 1 | 0 N 58 | 11 N 38 | 3 N 10 | 15 S 35 | 1 S 18 | 24 S 42 | 23 II 48 |
| 4 | 1 1 | 12 8 | 3 9 | 16 23 | 1 32 | 24 43 | 23 38 |
| 7 | 1 4 | 12 38 | 3 5 | 17 8 | 1 45 | 24 31 | 23 29 |
| 10 | 1 6 | 13 9 | 3 1 | 17 36 | 1 54 | 24 6 | 23 19 |
| 13 | 1 9 | 13 40 | 2 56 | 18 32 | 2 1 | 23 27 | 23 9 |
| 16 | 1 11 | 14 11 | 2 50 | 19 10 | 2 5 | 22 34 | 23 0 |
| 19 | 1 13 | 14 42 | 2 44 | 19 43 | 2 5 | 21 26 | 22 50 |
| 22 | 1 15 | 15 12 | 2 38 | 20 10 | 2 1 | 20 5 | 22 41 |
| 25 | 1 17 | 15 43 | 2 32 | 20 39 | 1 52 | 18 29 | 22 31 |
| 28 | 1 19 | 16 14 | 2 26 | 20 58 | 1 37 | 16 40 | 22 22 |
| 31 | 1 21 | 16 46 | 2 19 | 21 15 | 1 16 | 14 41 | 22 12 |

| D
M | h | ♄ | ♂ | ♀ | ♅ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|--------|---------|---------|--------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 10 m 49 | 5 m 53 | 27 r 54 | 23 m 25 | 3 v 53 | | | | | ☐ | | | |
| 2 | 10 56 | 6 2 | 28 19 | 24 30 | 5 28 | ♀ * ♄ | | * | ♈ | | | | |
| 3 | 11 2 | 6 11 | 28 44 | 25 35 | 7 3 | | | | | | * | ☐ | |
| 4 | 11 9 | 6 19 | 29 10 | 26 40 | 8 39 | | | ☐ | | Δ | | | * |
| 5 | 11 15 | 6 27 | 29 35 | 27 45 | 10 15 | | * | | | | | | |
| 6 | 11 22 | 6 35 | 0 8 | 1 28 | 50 11 | 51 | | | | | | | Δ |
| 7 | 11 29 | 6 43 | 0 27 | 29 55 | 13 28 | | ☐ | Δ | * | | | | ☐ |
| 8 | 11 36 | 6 51 | 0 54 | 1 ♀ | 1 15 | 5 | | | | | ♈ | | |
| 9 | 11 42 | 6 59 | 1 21 | 2 7 | 16 43 | | | | ☐ | ♈ | | | |
| 10 | 11 49 | 7 7 | 1 48 | 3 14 | 18 21 | | Δ | | | | | | Δ |
| 11 | 11 56 | 7 15 | 2 15 | 4 20 | 19 59 | ☉ ☉ ♀ | | ♈ | | | | ♈ | |
| 12 | 12 3 | 7 22 | 2 42 | 5 27 | 21 38 | | | | Δ | | | | |
| 13 | 12 10 | 7 29 | 3 10 | 6 34 | 23 18 | | | | | Δ | * | | |
| 14 | 12 16 | 7 36 | 3 38 | 7 41 | 24 58 | | | | | | | | |
| 15 | 12 23 | 7 43 | 4 6 | 8 48 | 26 38 | | ♈ | | | ☐ | ☐ | | ♈ |
| 16 | 12 30 | 7 50 | 4 35 | 9 56 | 28 19 | ♀ ☉ ☿ | | Δ | ♈ | | | Δ | |
| 17 | 12 37 | 7 57 | 5 3 | 11 4 | 0 m 0 | | | | | | | Δ | |
| 18 | 12 44 | 8 3 | 5 32 | 12 12 | 1 42 | ♀ * ♈ | | ☐ | | * | | ☐ | Δ |
| 19 | 12 51 | 8 9 | 6 1 | 13 20 | 3 25 | | Δ | | | | | | Δ |
| 20 | 12 58 | 8 15 | 6 30 | 14 28 | 5 8 | | | * | Δ | | | * | |
| 21 | 13 5 | 8 21 | 6 59 | 15 37 | 6 51 | ♀ ☐ ☿ | | | | | | | |
| 22 | 13 12 | 8 27 | 7 29 | 16 46 | 8 35 | ♀ ☐ ♄ | ☐ | | ☐ | ♈ | ♈ | | ☐ |
| 23 | 13 19 | 8 33 | 7 59 | 17 55 | 10 19 | ♀ * ☿ | | | | | | | |
| 24 | 13 26 | 8 39 | 8 29 | 19 4 | 12 3 | ♈ ☉ ♄ | * | ♈ | * | | | | * |
| 25 | 13 34 | 8 44 | 8 59 | 20 13 | 13 48 | ♀ ☉ ♈ | | | | | | ♈ | |
| 26 | 13 41 | 8 49 | 9 29 | 21 22 | 15 33 | | | | | * | | | |
| 27 | 13 48 | 8 54 | 10 0 | 22 31 | 17 17 | | | | | | Δ | | |
| 28 | 13 55 | 8 59 | 10 31 | 23 41 | 19 1 | | | | | | | | |
| 29 | 14 2 | 9 4 | 11 2 | 24 50 | 20 45 | | ♈ | * | ♈ | ☐ | ☐ | | |
| 30 | 14 9 | 9 9 | 11 33 | 26 0 | 22 28 | ☉ ☐ ♄ | | | | | | * | ♈ |
| 31 | 14 16 | 9 13 | 12 4 | 27 9 | 24 10 | ☉ * ☿ | | | | Δ | | | |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia | | Herschel. | | Saturn. | | Jupiter. | |
|--------|------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | " | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 16 | 15 | 0 N 4 | 21 S 59 | 0 S 52 | 17 S 22 | 1 N 16 | 13 S 25 |
| 4 | 16 | 15 | 0 4 | 22 0 | 0 52 | 17 16 | 1 16 | 13 28 |
| 7 | 16 | 14 | 0 4 | 22 1 | 0 53 | 17 9 | 1 17 | 13 31 |
| 10 | 16 | 14 | 0 4 | 22 2 | 0 53 | 17 3 | 1 17 | 13 33 |
| 13 | 16 | 13 | 0 4 | 22 2 | 0 53 | 16 57 | 1 18 | 13 35 |
| 16 | 16 | 12 | 0 4 | 22 3 | 0 53 | 16 51 | 1 18 | 13 36 |
| 19 | 16 | 11 | 0 4 | 22 4 | 0 54 | 16 45 | 1 19 | 13 37 |
| 22 | 16 | 11 | 0 4 | 22 4 | 0 54 | 16 39 | 1 19 | 13 37 |
| 25 | 16 | 10 | 0 4 | 22 4 | 0 54 | 16 33 | 1 20 | 13 36 |
| 28 | 16 | 10 | 0 4 | 22 4 | 0 54 | 16 27 | 1 20 | 13 35 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 20 42 18 | 11 35 48 | 17 S 19 | 15 x 47 | 5 S 4 | 10 S 16 | 10 132 |
| 2 | F | 20 46 15 | 12 36 41 | 17 2 27 | 38 | 5 6 | 5 37 | 10 34 |
| 3 | S | 20 50 11 | 13 37 32 | 16 45 9 | r 31 | 4 54 | 0 44 | 10 36 |
| 4 | S | 20 54 8 | 14 38 22 | 16 27 21 | 29 | 4 30 | 4 N 12 | 10 38 |
| 6 | M | 20 58 4 | 15 39 10 | 16 10 3 | x 36 | 3 54 | 9 4 | 10 40 |
| 6 | Tu | 21 2 1 | 16 39 57 | 15 51 15 | 57 | 3 6 | 13 40 | 10 42 |
| 7 | W | 21 5 58 | 17 40 42 | 15 33 28 | 37 | 2 8 | 17 47 | 10 44 |
| 8 | Th | 21 9 54 | 18 41 26 | 15 14 11 | n 40 | 1 12 | 1 12 | 10 46 |
| 9 | F | 21 13 51 | 19 42 8 | 14 55 25 | 9 | 0 N 11 | 23 32 | 10 48 |
| 10 | S | 21 17 47 | 20 42 48 | 14 36 9 | 5 8 | 1 25 | 24 33 | 10 50 |
| 11 | S | 21 21 44 | 21 43 26 | 14 17 23 | 36 | 2 35 | 23 56 | 10 52 |
| 12 | M | 21 25 40 | 22 44 3 | 13 57 8 | Ω 29 | 3 37 | 21 39 | 10 54 |
| 13 | Tu | 21 29 37 | 23 44 38 | 13 37 23 | 39 | 4 25 | 17 49 | 10 55 |
| 14 | W | 21 33 33 | 24 45 11 | 13 17 8 | 57 | 4 55 | 12 46 | 10 57 |
| 15 | Th | 21 37 30 | 25 45 43 | 12 57 24 | 12 | 5 3 | 6 58 | 10 59 |
| 16 | F | 21 41 27 | 26 46 14 | 12 36 9 | Δ 12 | 4 50 | 0 48 | 11 0 |
| 17 | S | 21 45 23 | 27 46 44 | 12 15 23 | 50 | 4 19 | 5 S 14 | 11 1 |
| 18 | S | 21 49 20 | 28 47 12 | 11 54 8 | m 1 | 3 32 | 10 51 | 11 3 |
| 19 | M | 21 53 16 | 29 47 39 | 11 33 21 | 44 | 2 34 | 15 44 | 11 4 |
| 20 | Tu | 21 57 13 | 0 x 48 | 4 11 12 | 5 f 0 | 1 30 | 19 41 | 11 6 |
| 21 | W | 22 1 9 | 1 48 28 | 10 51 17 | 54 | 0 23 | 22 32 | 11 7 |
| 22 | Th | 22 5 6 | 2 48 51 | 10 29 0 | w 28 | 0 S 44 | 24 12 | 11 8 |
| 23 | F | 22 9 3 | 3 49 13 | 10 7 12 | 48 | 1 47 | 24 38 | 11 9 |
| 24 | S | 22 13 0 | 4 49 33 | 9 45 24 | 57 | 2 45 | 23 52 | 11 10 |
| 25 | S | 22 16 57 | 5 49 51 | 9 23 6 | m 59 | 3 34 | 21 59 | 11 11 |
| 26 | M | 22 20 54 | 6 50 8 | 9 1 18 | 55 | 4 13 | 19 10 | 11 12 |
| 27 | Tu | 22 24 51 | 7 50 23 | 8 38 0 | x 49 | 4 41 | 15 34 | 11 13 |
| 28 | W | 22 28 48 | 8 50 36 | 8 16 12 | 41 | 4 56 | 11 22 | 11 14 |
| 29 | Th | 22 32 45 | 9 50 48 | 7 53 24 | 33 | 4 59 | 6 45 | 11 15 |

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' |
| 1 | 1 N 21 | 16 N 55 | 2 N 16 | 21 S 21 | 1 S 8 | 13 S 58 | 22 □ 9 |
| 4 | 1 22 | 17 25 | 2 1 | 21 29 | 0 38 | 11 49 | 22 0 |
| 7 | 1 23 | 17 54 | 1 46 | 21 36 | 0 2 | 9 40 | 21 50 |
| 10 | 1 24 | 18 23 | 1 35 | 21 34 | 0 N 41 | 7 38 | 21 41 |
| 13 | 1 25 | 18 51 | 1 24 | 21 29 | 1 28 | 5 55 | 21 31 |
| 16 | 1 26 | 19 19 | 1 13 | 21 18 | 2 16 | 4 40 | 21 22 |
| 19 | 1 27 | 19 46 | 1 2 | 21 1 | 2 58 | 4 5 | 21 12 |
| 22 | 1 27 | 20 11 | 0 50 | 20 38 | 3 29 | 4 31 | 21 3 |
| 25 | 1 28 | 20 37 | 0 42 | 20 11 | 3 43 | 5 0 | 20 53 |
| 28 | 1 28 | 21 2 | 0 33 | 19 37 | 3 38 | 6 14 | 20 44 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|--------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 14 m 24 | 9 m 18 | 12 s 35 | 23 f 19 | 25 m 52 | | | | □ | | | * | | |
| 2 | 14 31 | 9 22 | 13 6 | 29 29 | 27 32 | | | | | | | | □ | |
| 3 | 14 38 | 9 26 | 13 38 | 0 w 39 | 29 9 | ☉ □ ♈ | * | Δ | * | | | | | |
| 4 | 14 45 | 9 30 | 14 10 | 1 49 | 0 x 43 | ☉ ♂ ♈ | | | | | | | | |
| 5 | 14 52 | 9 34 | 14 42 | 3 0 | 2 15 | ♈ □ ♈ | | | | | ♈ | | Δ | * |
| 6 | 14 59 | 9 38 | 15 14 | 4 10 | 3 43 | | | □ | | □ | | ♈ | | |
| 7 | 15 7 | 9 41 | 15 46 | 5 21 | 5 8 | | | | | | | | | |
| 8 | 15 14 | 9 44 | 16 18 | 6 32 | 6 28 | ♀ * ♀ | | Δ | ♈ | Δ | | | | □ |
| 9 | 15 21 | 9 47 | 16 50 | 7 42 | 7 42 | | | Δ | | | | | | |
| 10 | 15 28 | 9 50 | 17 22 | 8 53 | 8 50 | ♀ Δ ♈ | | | | | Δ | | ♈ | Δ |
| 11 | 15 35 | 9 53 | 17 54 | 10 4 | 9 51 | ♀ * ♈ | | | | | | * | | |
| 12 | 15 42 | 9 55 | 18 26 | 11 15 | 10 44 | ♀ □ ♈ | | | Δ | ♈ | □ | | * | |
| 13 | 15 50 | 9 57 | 18 59 | 12 26 | 11 29 | | | ♈ | | | | □ | | |
| 14 | 15 57 | 9 59 | 19 32 | 13 37 | 12 5 | | | | □ | | * | | Δ | ♈ |
| 15 | 16 4 | 10 1 | 20 5 | 14 48 | 12 32 | | | | | | | Δ | | |
| 16 | 16 11 | 10 3 | 20 38 | 15 59 | 12 50 | | | | * | Δ | | | | |
| 17 | 16 18 | 10 4 | 21 11 | 17 10 | 12 58 | | | Δ | | | | | □ | |
| 18 | 16 25 | 10 5 | 21 44 | 18 21 | 12 55 | | | | | | ♈ | | | Δ |
| 19 | 16 33 | 10 6 | 22 18 | 19 33 | 12 40 | | | | | □ | | ♈ | * | |
| 20 | 16 40 | 10 7 | 22 51 | 20 44 | 12 16 | | | □ | ♈ | | | | | |
| 21 | 16 47 | 10 8 | 23 25 | 21 56 | 11 44 | | | | | * | | | | □ |
| 22 | 16 54 | 10 8 | 23 58 | 23 7 | 11 3 | ♀ □ ♈ | * | | | | | | | * |
| 23 | 17 1 | 10 8 | 24 32 | 24 19 | 10 15 | ♀ Δ ♈ | | | | | * | | | * |
| 24 | 17 8 | 10 8 | 25 6 | 25 30 | 9 21 | | | | | | | Δ | ♈ | |
| 25 | 17 16 | 10 8 | 25 40 | 26 42 | 8 22 | ♀ Δ ♈ | | * | | | □ | | | |
| 26 | 17 23 | 10 8 | 26 14 | 27 54 | 7 20 | ☉ ♂ ♈ | | | | | | | | ♈ |
| 27 | 17 30 | 10 8 | 26 48 | 29 6 | 6 16 | | | ♈ | | | | Δ | | ♈ |
| 28 | 17 37 | 10 8 | 27 22 | 0 m 18 | 5 12 | | | ♈ | □ | | Δ | | * | |
| 29 | 17 44 | 10 7 | 27 56 | 1 30 | 4 9 | ☉ Δ ♈ | | | | | | * | | |

| 6 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1816. | | | | |
|------------------|-------------------|-----------------------------------|-----------|----|------------|----|-------------|-----|------------|----|-----------|--------|-------------|-----|------------|-------|
| MARCH XXXI DAYS. | | | | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | | | Saturn. | | | | Jupiter. | | | | | |
| | | | Lat. | | Declin. | | Lat. | | Declin. | | Lat. | | Declin. | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | |
| 1 | 16 | 10 | 0 N | 4 | 22 S | 5 | 0 S | 55 | 16 S | 22 | 1 N | 22 | 13 S | 34 | | |
| 4 | 16 | 9 | 0 | 4 | 22 | 5 | 0 | 55 | 16 | 16 | 1 | 22 | 13 | 32 | | |
| 7 | 16 | 8 | 0 | 4 | 22 | 5 | 0 | 55 | 16 | 10 | 1 | 23 | 13 | 30 | | |
| 10 | 16 | 8 | 0 | 4 | 22 | 6 | 0 | 55 | 16 | 4 | 1 | 23 | 13 | 27 | | |
| 18 | 16 | 7 | 0 | 4 | 22 | 6 | 0 | 56 | 15 | 59 | 1 | 24 | 13 | 24 | | |
| 16 | 16 | 6 | 0 | 4 | 22 | 6 | 0 | 56 | 15 | 58 | 1 | 24 | 13 | 20 | | |
| 19 | 16 | 5 | 0 | 4 | 22 | 6 | 0 | 56 | 15 | 48 | 1 | 25 | 13 | 16 | | |
| 22 | 16 | 4 | 0 | 4 | 22 | 6 | 0 | 56 | 15 | 42 | 1 | 25 | 13 | 11 | | |
| 25 | 16 | 3 | 0 | 4 | 22 | 6 | 0 | 57 | 15 | 37 | 1 | 26 | 13 | 6 | | |
| 28 | 16 | 3 | 0 | 4 | 22 | 6 | 0 | 57 | 15 | 32 | 1 | 26 | 13 | 1 | | |
| 31 | 16 | 2 | 0 | 4 | 22 | 6 | 0 | 57 | 15 | 27 | 1 | 26 | 12 | 56 | | |
| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin | | ☽
Long. | | ☽
Lat. | | ☽
Declin | | ♂
Long. | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | " |
| 1 | F | 22 | 36 | 42 | 10 | 50 | 58 | 7 S | 30 | 6 | 26 | 4 S | 49 | 1 S | 52 | 11 16 |
| 2 | S | 22 | 40 | 38 | 11 | 51 | 5 | 7 | 7 | 18 | 22 | 4 | 26 | 3 N | 6 | 11 16 |
| 3 | S | 22 | 44 | 34 | 12 | 51 | 10 | 6 | 44 | 0 | 23 | 3 | 51 | 8 | 1 | 11 17 |
| 4 | M | 22 | 48 | 31 | 13 | 51 | 14 | 6 | 21 | 12 | 32 | 3 | 5 | 12 | 40 | 11 18 |
| 5 | Tu | 22 | 52 | 28 | 14 | 51 | 15 | 5 | 58 | 24 | 52 | 2 | 10 | 16 | 54 | 11 18 |
| 6 | W | 22 | 56 | 24 | 15 | 51 | 14 | 5 | 35 | 7 | 29 | 1 | 7 | 20 | 28 | 11 19 |
| 7 | Th | 23 | 0 | 21 | 16 | 51 | 11 | 5 | 12 | 20 | 25 | 0 N | 1 | 23 | 8 | 11 19 |
| 8 | F | 23 | 4 | 18 | 17 | 51 | 5 | 4 | 48 | 3 | 45 | 1 | 10 | 24 | 35 | 11 20 |
| 9 | S | 23 | 8 | 14 | 18 | 50 | 57 | 4 | 25 | 17 | 33 | 2 | 19 | 24 | 36 | 11 20 |
| 10 | S | 23 | 12 | 11 | 19 | 50 | 47 | 4 | 1 | 1 | 50 | 3 | 20 | 23 | 2 | 11 20 |
| 11 | M | 23 | 16 | 7 | 20 | 50 | 34 | 3 | 38 | 16 | 34 | 4 | 11 | 19 | 52 | 11 21 |
| 12 | Tu | 23 | 20 | 4 | 21 | 50 | 20 | 3 | 14 | 1 | 40 | 4 | 45 | 15 | 20 | 11 21 |
| 13 | W | 23 | 24 | 0 | 22 | 50 | 8 | 2 | 51 | 16 | 59 | 5 | 0 | 9 | 44 | 11 21 |
| 14 | Th | 23 | 27 | 57 | 23 | 49 | 44 | 2 | 27 | 2 | 20 | 4 | 53 | 3 | 33 | 11 21 |
| 15 | F | 23 | 31 | 53 | 24 | 49 | 24 | 2 | 4 | 17 | 30 | 4 | 25 | 2 S | 48 | 11 21 |
| 16 | S | 23 | 35 | 50 | 25 | 49 | 1 | 1 | 40 | 2 | 21 | 3 | 40 | 8 | 51 | 11 21 |
| 17 | S | 23 | 39 | 47 | 26 | 48 | 36 | 1 | 16 | 16 | 45 | 2 | 42 | 14 | 16 | 11 21 |
| 18 | M | 23 | 43 | 43 | 27 | 48 | 10 | 0 | 52 | 0 | 39 | 1 | 36 | 18 | 45 | 11 21 |
| 19 | Tu | 23 | 47 | 40 | 28 | 47 | 42 | 0 | 29 | 14 | 3 | 0 | 27 | 22 | 4 | 11 21 |
| 20 | W | 23 | 51 | 36 | 29 | 47 | 13 | 0 | 5 | 27 | 1 | 0 S | 42 | 24 | 8 | 11 21 |
| 21 | Th | 23 | 55 | 33 | 0 | 46 | 42 | 0 N | 19 | 9 | 36 | 1 | 46 | 24 | 53 | 11 21 |
| 22 | F | 23 | 59 | 30 | 1 | 46 | 9 | 0 | 42 | 21 | 53 | 2 | 44 | 24 | 23 | 11 20 |
| 23 | S | 0 | 3 | 26 | 2 | 45 | 34 | 1 | 6 | 3 | 58 | 3 | 34 | 22 | 44 | 11 20 |
| 24 | S | 0 | 7 | 22 | 3 | 44 | 57 | 1 | 30 | 15 | 55 | 4 | 13 | 20 | 6 | 11 19 |
| 25 | M | 0 | 11 | 19 | 4 | 44 | 19 | 1 | 53 | 27 | 47 | 4 | 41 | 16 | 39 | 11 18 |
| 26 | Tu | 0 | 15 | 16 | 5 | 43 | 38 | 2 | 17 | 9 | 38 | 4 | 57 | 12 | 33 | 11 18 |
| 27 | W | 0 | 19 | 12 | 6 | 42 | 56 | 2 | 40 | 21 | 29 | 5 | 0 | 7 | 59 | 11 17 |
| 28 | Th | 0 | 23 | 9 | 7 | 42 | 12 | 3 | 4 | 3 | 23 | 4 | 50 | 3 | 5 | 11 17 |
| 29 | F | 0 | 27 | 5 | 8 | 41 | 26 | 3 | 27 | 15 | 22 | 4 | 27 | 1 N | 56 | 11 16 |
| 30 | S | 0 | 31 | 2 | 9 | 40 | 38 | 3 | 50 | 27 | 25 | 3 | 52 | 6 | 57 | 11 16 |
| 31 | S | 0 | 34 | 58 | 10 | 39 | 48 | 4 | 14 | 9 | 35 | 3 | 7 | 11 | 45 | 11 15 |

| 1816.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | 9 |
|-----------------|--------|-----------------------------------|--------|---------|----------|---------|-----------------|----|
| APRIL XXX DAYS. | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 1 N 30 | 24 N 17 | 1 S 9 | 8 S 51 | 2 S 12 | 7 S 55 | 18 | 58 |
| 4 | 1 30 | 24 26 | 1 15 | 7 31 | 2 23 | 6 31 | 18 | 48 |
| 7 | 1 30 | 24 35 | 1 20 | 6 13 | 2 30 | 4 56 | 18 | 39 |
| 10 | 1 30 | 24 42 | 1 24 | 4 51 | 2 33 | 3 11 | 18 | 29 |
| 13 | 1 29 | 24 48 | 1 28 | 3 28 | 2 30 | 1 13 | 18 | 20 |
| 16 | 1 29 | 24 52 | 1 31 | 2 3 | 2 23 | 0 N 51 | 18 | 10 |
| 19 | 1 29 | 24 55 | 1 34 | 0 39 | 2 12 | 8 5 | 18 | 1 |
| 22 | 1 29 | 24 56 | 1 36 | 0 N 47 | 1 55 | 5 27 | 17 | 52 |
| 25 | 1 28 | 24 56 | 1 37 | 2 11 | 1 35 | 7 55 | 17 | 42 |
| 28 | 1 28 | 24 54 | 1 38 | 3 45 | 1 10 | 10 27 | 17 | 33 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------------------|------------------|-------------------|-------------------|-------------------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | ☉ | | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 21 ^m 2 | 8 ^m 9 | 16 34 | 10 [×] 7 | 15 [×] 5 | | ☉ Δ ♈ | | | □ | | | | |
| 2 | 21 8 | 8 ^h 3 | 17 10 | 11 19 | 16 22 | | ♀ □ ♈ | | | | | | | |
| 3 | 21 13 | 7 57 | 17 45 | 12 32 | 17 42 | | ♀ □ ♉ | * | ♂ | Δ | | ♂ | □ | □ |
| 4 | 21 18 | 7 51 | 18 21 | 13 45 | 19 5 | | | | | | | | | |
| 5 | 21 28 | 7 44 | 18 56 | 14 58 | 20 29 | | | □ | | | Δ | | Δ | |
| 6 | 21 28 | 7 37 | 19 32 | 16 11 | 21 55 | | | | | | | | | Δ |
| 7 | 21 33 | 7 30 | 20 8 | 17 24 | 23 22 | | | Δ | Δ | | ♂ | □ | * | |
| 8 | 21 38 | 7 23 | 20 43 | 18 36 | 24 51 | | | | | ♂ | | * | * | |
| 9 | 21 43 | 7 16 | 21 19 | 19 49 | 26 21 | | | | □ | | * | | □ | ♂ |
| 10 | 21 48 | 7 9 | 21 55 | 21 2 | 27 53 | ♂ Δ ♈ | | | | | | | □ | ♂ |
| 11 | 21 53 | 7 2 | 22 31 | 22 15 | 29 27 | ☉ * ♈ | | | * | | | | | |
| 12 | 21 58 | 6 55 | 23 7 | 23 28 | 1 ^r 2 | ♀ □ ♉ | ♂ | | | Δ | | ♂ | Δ | |
| 13 | 22 2 | 6 48 | 23 43 | 24 41 | 2 39 | | | | | | | ♂ | | |
| 14 | 22 7 | 6 41 | 24 19 | 25 54 | 4 18 | ☉ * ♉ | | | | □ | | | | Δ |
| 15 | 22 11 | 6 34 | 24 55 | 27 7 | 5 58 | | | | ♂ | | | | | Δ |
| 16 | 22 16 | 6 27 | 25 31 | 28 20 | 7 40 | | | Δ | | * | | ♂ | | |
| 17 | 22 20 | 6 19 | 26 7 | 29 33 | 9 24 | ♀ Δ ♈ | | | | | | * | | □ |
| 18 | 22 24 | 6 11 | 26 43 | 0 ^r 46 | 11 9 | | | | | | | | | □ |
| 19 | 22 28 | 6 3 | 27 19 | 1 59 | 12 56 | | | □ | | | | □ | | * |
| 20 | 22 32 | 5 55 | 27 55 | 3 12 | 14 44 | | | | * | | | | | * |
| 21 | 22 36 | 5 48 | 28 31 | 4 25 | 16 34 | | | | | ♂ | | Δ | | |
| 22 | 22 40 | 5 40 | 29 7 | 5 38 | 18 26 | | | * | □ | | Δ | | | |
| 23 | 22 44 | 5 33 | 29 49 | 6 51 | 20 19 | | | | | | | | | |
| 24 | 22 48 | 5 25 | 0 ^h 19 | 8 4 | 22 14 | ♀ * ♈ | | | | | | □ | | |
| 25 | 22 52 | 5 17 | 0 55 | 9 17 | 24 11 | ☉ ♂ ♈ | | | Δ | | | | ♂ | |
| 26 | 22 55 | 5 10 | 1 31 | 10 30 | 26 10 | ♀ Δ ♈ | | | | * | | | | ♂ |
| 27 | 22 59 | 5 2 | 2 7 | 11 43 | 28 10 | | | ♂ | | | ♂ | * | | |
| 28 | 23 2 | 4 54 | 2 43 | 12 56 | 0 ^h 12 | | | | | □ | | | | |
| 29 | 23 6 | 4 47 | 3 19 | 14 9 | 2 15 | ♀ * ♉ | | | | | | | | |
| 30 | 23 9 | 4 39 | 3 55 | 15 22 | 4 20 | ♀ ♂ ♈ | | ♂ | | | | | * | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 27 | 24 N 50 | 1 S 38 | 5 N 2 | 0 S 42 | 13 N 1 | 17 □ 23 |
| 4 | 1 27 | 24 45 | 1 37 | 6 26 | 0 12 | 15 31 | 17 13 |
| 7 | 1 26 | 24 39 | 1 35 | 7 48 | 0 N 20 | 17 54 | 17 4 |
| 10 | 1 26 | 24 31 | 1 33 | 9 10 | 0 51 | 20 4 | 16 54 |
| 13 | 1 25 | 24 22 | 1 31 | 10 29 | 1 19 | 21 55 | 16 45 |
| 16 | 1 25 | 24 10 | 1 28 | 11 45 | 1 42 | 23 24 | 16 35 |
| 19 | 1 24 | 23 58 | 1 24 | 13 2 | 2 0 | 24 30 | 16 26 |
| 22 | 1 24 | 23 43 | 1 20 | 14 14 | 2 11 | 25 13 | 16 16 |
| 25 | 1 23 | 23 28 | 1 15 | 15 24 | 2 14 | 25 35 | 16 7 |
| 28 | 1 23 | 23 9 | 1 9 | 16 29 | 2 11 | 25 38 | 15 57 |
| 31 | 1 23 | 22 50 | 1 4 | 17 38 | 2 0 | 25 26 | 15 48 |

| D
M | ♄ | | ♅ | | ♆ | | ♇ | | ♈ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|----------------|---|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 23 | 12 | 4 | 31 | 4 | 32 | 16 | 36 | 6 | 25 | ♂ Δ ♄ | * | | Δ | | | | |
| 2 | 23 | 15 | 4 | 23 | 5 | 8 | 17 | 49 | 8 | 32 | | | | | Δ | ♂ | | * |
| 3 | 23 | 18 | 4 | 15 | 5 | 44 | 19 | | 2 | 10 | 40 | | | | | | □ | |
| 4 | 23 | 21 | 4 | 8 | 6 | 21 | 20 | 15 | 12 | 50 | | □ | | | □ | | | □ |
| 5 | 23 | 24 | 4 | 0 | 6 | 57 | 21 | 28 | 15 | 0 | ☉ ♂ ♀ | | Δ | ♂ | | | Δ | |
| 6 | 23 | 27 | 3 | 53 | 7 | 33 | 22 | 41 | 17 | 11 | | | □ | | * | * | | |
| 7 | 23 | 30 | 3 | 46 | 8 | 10 | 23 | 54 | 19 | 21 | ♀ * ♄ | Δ | | | | | | Δ |
| 8 | 23 | 33 | 3 | 38 | 8 | 46 | 25 | | 7 | 21 | 32 | | * | | | □ | | |
| 9 | 23 | 35 | 3 | 31 | 9 | 23 | 26 | 20 | 23 | 42 | ♀ □ ♄ | | | Δ | | | | |
| 10 | 23 | 38 | 3 | 24 | 9 | 59 | 27 | 33 | 25 | 51 | | | | | ♂ | Δ | ♂ | |
| 11 | 23 | 40 | 3 | 17 | 10 | 36 | 28 | 46 | 28 | 0 | | ♂ | | □ | | | | |
| 12 | 23 | 42 | 3 | 10 | 11 | 12 | 29 | 59 | 0 | 11 | 7 | | | | | | | ♂ |
| 13 | 23 | 44 | 3 | 3 | 11 | 49 | 1 | 18 | 12 | 2 | 13 | | | ♂ | | | | |
| 14 | 23 | 46 | 2 | 56 | 12 | 25 | 2 | 25 | 4 | 17 | ☉ □ ♄ | | | * | * | | Δ | |
| 15 | 23 | 48 | 2 | 50 | 13 | | 3 | 38 | 6 | 20 | ♀ ♂ ♄ | | | | | ♂ | | |
| 16 | 23 | 50 | 2 | 43 | 13 | 38 | 4 | 51 | 8 | 21 | | Δ | * | | □ | | | |
| 17 | 23 | 52 | 2 | 37 | 14 | 15 | 6 | 4 | 10 | 20 | ♀ ♂ ♄ | | * | | | | □ | Δ |
| 18 | 23 | 54 | 2 | 30 | 14 | 51 | 7 | 17 | 12 | 16 | | | | ♂ | | | | |
| 19 | 23 | 55 | 2 | 24 | 15 | 28 | 8 | 31 | 14 | 8 | | □ | | | Δ | | | |
| 20 | 23 | 57 | 2 | 18 | 16 | | 4 | 9 | 44 | 15 | 58 | | □ | | | | Δ | * |
| 21 | 23 | 58 | 2 | 12 | 16 | 41 | 10 | 57 | 17 | 45 | | * | | | | | | |
| 22 | 23 | 59 | 2 | 6 | 17 | 17 | 12 | 10 | 19 | 30 | | | Δ | | | | | |
| 23 | 24 | 0 | 2 | 0 | 17 | 54 | 13 | 23 | 21 | 12 | | | | * | | □ | | * |
| 24 | 24 | 1 | 1 | 54 | 18 | 30 | 14 | 36 | 22 | 51 | | | | | ♂ | | | |
| 25 | 24 | 2 | 1 | 49 | 19 | | 7 | 15 | 50 | 24 | 27 | ♀ Δ ♄ | | | | | * | ♂ |
| 26 | 24 | 3 | 1 | 43 | 19 | 44 | 17 | | 3 | 26 | 0 | | | | □ | | | |
| 27 | 24 | 4 | 1 | 38 | 20 | 20 | 18 | 17 | 27 | 29 | | | ♂ | ♂ | | | | |
| 28 | 24 | 4 | 1 | 33 | 20 | 57 | 19 | 30 | 28 | 55 | | | | | Δ | | | ♂ |
| 29 | 24 | 5 | 1 | 28 | 21 | 34 | 20 | 43 | 0 | 18 | ♀ * ♂ | | | | | Δ | | |
| 30 | 24 | 5 | 1 | 23 | 22 | 10 | 21 | 57 | 1 | 38 | ♀ Δ ♄ | | | | | | ♂ | * |
| 31 | 24 | 5 | 1 | 18 | 22 | 47 | 23 | 10 | 2 | 56 | ☉ ♂ ♄ | * | Δ | | □ | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 N 3 | 21 S 49 | 1 S 9 | 14 S 35 | 1 N 21 | 10 S 39 |
| 4 | 15 | 48 | 0 3 | 21 47 | 1 9 | 14 36 | 1 21 | 10 34 |
| 7 | 15 | 47 | 0 3 | 21 46 | 1 10 | 14 36 | 1 20 | 10 32 |
| 10 | 15 | 47 | 0 3 | 21 45 | 1 10 | 14 37 | 1 19 | 10 29 |
| 18 | 15 | 46 | 0 3 | 21 45 | 1 11 | 14 39 | 1 18 | 10 27 |
| 16 | 15 | 46 | 0 3 | 21 44 | 1 11 | 14 40 | 1 17 | 10 26 |
| 19 | 15 | 46 | 0 3 | 21 43 | 1 12 | 14 42 | 1 16 | 10 25 |
| 22 | 15 | 46 | 0 3 | 21 42 | 1 12 | 14 45 | 1 16 | 10 24 |
| 25 | 15 | 46 | 0 3 | 21 41 | 1 13 | 14 47 | 1 15 | 10 24 |
| 28 | 15 | 45 | 0 3 | 21 40 | 1 13 | 14 50 | 1 15 | 10 25 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 4 38 21 | 10 ♄ 47 16 | 22 N 5 | 18 ♄ 7 | 4 N 42 | 19 N 53 | 9 ♄ 18 |
| 2 | S | 4 43 18 | 11 44 43 | 22 13 | 2 ♄ 13 | 5 9 | 15 30 | 9 ♄ 16 |
| 3 | M | 4 47 14 | 12 42 8 | 22 21 | 16 25 | 5 17 | 10 14 | 9 14 |
| 4 | Tu | 4 51 13 | 13 39 32 | 22 28 | 0 ♄ 42 | 5 6 | 4 24 | 9 12 |
| 5 | W | 4 55 7 | 14 36 55 | 22 35 | 15 0 | 4 36 | 1 S 41 | 9 9 |
| 6 | Th | 4 59 4 | 15 34 16 | 22 41 | 29 18 | 3 49 | 7 40 | 9 7 |
| 7 | F | 5 3 1 | 16 31 37 | 22 47 | 13 ♄ 30 | 2 48 | 13 14 | 9 4 |
| 8 | S | 5 6 57 | 17 28 57 | 22 52 | 27 33 | 1 37 | 18 3 | 9 2 |
| 9 | S | 5 10 54 | 18 26 16 | 22 58 | 11 ♄ 24 | 0 22 | 21 48 | 8 59 |
| 10 | M | 5 14 50 | 19 23 34 | 23 2 | 24 59 | 0 S 51 | 24 16 | 8 57 |
| 11 | Tu | 5 18 47 | 20 20 51 | 23 7 | 8 ♄ 17 | 2 3 | 25 15 | 8 54 |
| 12 | W | 5 22 43 | 21 18 8 | 23 11 | 21 16 | 3 6 | 24 50 | 8 52 |
| 13 | Th | 5 26 40 | 22 15 25 | 23 14 | 3 ♄ 58 | 3 58 | 23 8 | 8 49 |
| 14 | F | 5 30 36 | 23 12 41 | 23 17 | 16 23 | 4 37 | 20 20 | 8 47 |
| 15 | S | 5 34 33 | 24 9 56 | 23 20 | 28 35 | 5 3 | 16 43 | 8 44 |
| 16 | S | 5 38 30 | 25 7 12 | 23 22 | 10 ♄ 36 | 5 15 | 12 27 | 8 42 |
| 17 | M | 5 42 26 | 26 4 27 | 23 24 | 22 31 | 5 14 | 7 46 | 8 39 |
| 18 | Tu | 5 46 23 | 27 1 42 | 23 26 | 4 ♄ 25 | 4 59 | 2 49 | 8 37 |
| 19 | W | 5 50 19 | 27 58 57 | 23 27 | 16 21 | 4 31 | 2 N 16 | 8 35 |
| 20 | Th | 5 54 17 | 28 56 12 | 23 27 | 28 25 | 3 51 | 7 19 | 8 32 |
| 21 | F | 5 58 13 | 29 53 27 | 23 28 | 10 ♄ 40 | 3 0 | 12 11 | 8 30 |
| 22 | S | 6 2 9 | 0 ♄ 50 42 | 23 28 | 23 11 | 2 0 | 16 39 | 8 28 |
| 23 | S | 6 6 5 | 1 47 57 | 23 27 | 6 ♄ 0 | 0 52 | 20 29 | 8 26 |
| 24 | M | 6 10 2 | 2 45 11 | 23 26 | 19 8 | 0 N 20 | 23 21 | 8 23 |
| 25 | Tu | 6 13 59 | 3 42 26 | 23 25 | 2 ♄ 35 | 1 33 | 25 0 | 8 21 |
| 26 | W | 6 17 56 | 4 39 40 | 23 23 | 16 20 | 2 42 | 25 9 | 8 19 |
| 27 | Th | 6 21 53 | 5 36 54 | 23 21 | 0 ♄ 21 | 3 43 | 23 43 | 8 17 |
| 28 | F | 6 25 50 | 6 34 7 | 23 18 | 14 33 | 4 30 | 20 47 | 8 15 |
| 29 | S | 6 29 47 | 7 31 20 | 23 15 | 28 52 | 5 1 | 16 35 | 8 13 |
| 30 | S | 6 33 44 | 8 28 34 | 23 12 | 13 ♄ 13 | 5 14 | 11 26 | 8 11 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N22 | 22 N46 | 1 S 3 | 17 N52 | 1 N55 | 25 N18 | 15 II 45 |
| 4 | 1 21 | 22 26 | 0 57 | 18 48 | 1 34 | 24 49 | 15 35 |
| 7 | 1 20 | 22 5 | 0 50 | 19 42 | 1 7 | 24 10 | 15 26 |
| 10 | 1 20 | 21 42 | 0 44 | 20 28 | 0 33 | 23 25 | 15 16 |
| 13 | 1 19 | 21 18 | 0 37 | 21 13 | 0 S 7 | 22 36 | 15 7 |
| 16 | 1 18 | 20 52 | 0 30 | 22 3 | 0 52 | 21 45 | 14 57 |
| 19 | 1 17 | 20 25 | 0 23 | 22 23 | 1 40 | 20 55 | 14 47 |
| 22 | 1 17 | 19 57 | 0 16 | 22 52 | 2 28 | 20 9 | 14 38 |
| 25 | 1 16 | 19 28 | 0 8 | 23 11 | 3 15 | 19 29 | 14 28 |
| 28 | 1 15 | 18 56 | 0 1 | 23 28 | 3 S 56 | 18 57 | 14 19 |

| D
M | h | | ♄ | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 24m 6 | 1m 13 | 23 24 | 24 23 | 4 9 | | | | | | | ♈ | | | ☐ | |
| 2 | 24 6 | 1 9 | 24 1 | 25 36 | 5 22 | | | | | | | | * | | | * |
| 3 | 24 6 | 1 5 | 24 38 | 26 49 | 6 29 | | | | | ☐ | ☐ | | | | | |
| 4 | 24 6 | 1 1 | 25 14 | 28 2 | 7 30 | | | | | | | | | | * | Δ |
| 5 | 24 6 | 0 57 | 25 51 | 29 15 | 8 28 | | | | | Δ | * | | | | | ☐ |
| 6 | 24 6 | 0 53 | 26 28 | 0 28 | 9 24 | | | | | | | Δ | ♈ | ☐ | | |
| 7 | 24 6 | 0 49 | 27 5 | 1 42 | 10 18 | | | | | | | | | | | Δ |
| 8 | 24 5 | 0 46 | 27 42 | 2 55 | 11 17 | | | | | | | ☐ | | Δ | ♈ | |
| 9 | 24 5 | 0 43 | 28 19 | 4 8 | 11 52 | | | | | | ♈ | | | | | |
| 10 | 24 4 | 0 40 | 28 55 | 5 22 | 12 32 | | | | | ♈ | | * | * | | | |
| 11 | 24 4 | 0 37 | 29 32 | 6 35 | 13 8 | | | | | | | | | | | ♈ |
| 12 | 24 3 | 0 34 | 0 9 | 7 48 | 13 40 | ♈ ☐ ♄ | | | | | | | | | | |
| 13 | 24 2 | 0 31 | 0 46 | 9 2 | 14 9 | ♀ ♈ ☿ | | | | | * | | ☐ | ♈ | Δ | |
| 14 | 24 1 | 0 29 | 1 23 | 10 15 | 14 33 | | | | | | | | | | | |
| 15 | 24 0 | 0 27 | 2 0 | 11 28 | 14 53 | ☉ Δ ♈ | | | | Δ | | ♈ | Δ | | | |
| 16 | 23 59 | 0 25 | 2 36 | 12 42 | 15 8 | | | | | | ☐ | | | | ☐ | Δ |
| 17 | 23 57 | 0 23 | 3 13 | 13 55 | 15 18 | | | | | ☐ | | Δ | | | | |
| 18 | 23 56 | 0 21 | 3 50 | 15 8 | 15 24 | | | | | | | | | Δ | | |
| 19 | 23 54 | 0 19 | 4 27 | 16 22 | 15 25 | | | | | | | | | | * | ☐ |
| 20 | 23 53 | 0 18 | 5 4 | 17 35 | 15 21 | | | | | * | | * | ♈ | | | |
| 21 | 23 51 | 0 17 | 5 41 | 18 49 | 15 13 | | | | | | | | | | ☐ | * |
| 22 | 23 49 | 0 16 | 6 18 | 20 2 | 15 2 | ☉ Δ ♄ | | | | | | ☐ | | | * | |
| 23 | 23 48 | 0 15 | 6 55 | 21 16 | 14 47 | | | | | | ♈ | | | | * | |
| 24 | 23 46 | 0 14 | 7 32 | 22 29 | 14 27 | ♀ Δ ♈ | | | | | | Δ | | | ♈ | |
| 25 | 23 44 | 0 14 | 8 9 | 23 43 | 14 2 | ♈ Δ ☿ | | | | ♈ | | | Δ | | | |
| 26 | 23 42 | 0 D 14 | 8 46 | 24 56 | 13 34 | | | | | | | | | | | ♈ |
| 27 | 23 40 | 0 14 | 9 23 | 26 10 | 13 4 | | | | | | | | | ☐ | ♈ | |
| 28 | 23 37 | 0 14 | 10 0 | 27 23 | 12 32 | | | | | | Δ | | | | ♈ | |
| 29 | 23 35 | 0 14 | 10 37 | 28 37 | 11 58 | | | | | | | ♈ | * | | * | |
| 30 | 23 33 | 0 14 | 11 14 | 29 50 | 11 21 | | | | | * | ☐ | | | | | * |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 1 N14 | 18 N26 | 0 N 6 | 23 N35 | 4 S 27 | 18 N36 | 14 II 9 |
| 4 | 1 13 | 17 54 | 0 13 | 23 37 | 4 46 | 18 25 | 13 59 |
| 7 | 1 12 | 17 20 | 0 20 | 23 32 | 4 50 | 18 27 | 13 50 |
| 10 | 1 12 | 16 45 | 0 27 | 23 15 | 4 40 | 18 40 | 13 40 |
| 13 | 1 11 | 16 10 | 0 34 | 23 5 | 4 17 | 19 3 | 13 31 |
| 16 | 1 10 | 15 47 | 0 40 | 22 41 | 3 46 | 19 33 | 13 21 |
| 19 | 1 9 | 14 56 | 0 46 | 22 14 | 3 7 | 20 8 | 13 12 |
| 22 | 1 8 | 14 17 | 0 51 | 21 37 | 2 24 | 20 43 | 13 2 |
| 25 | 1 7 | 13 38 | 0 58 | 20 59 | 1 40 | 21 12 | 12 53 |
| 28 | 1 7 | 12 58 | 1 3 | 20 11 | 0 56 | 21 32 | 12 43 |
| 31 | 1 6 | 12 14 | 1 7 | 19 20 | 0 14 | 21 37 | 12 34 |

| D
M | h | Long. | ♈ | Long. | ♉ | Long. | ♊ | Long. | ♋ | Long. | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|----|-------|-----|-------|-----|-------|-----|-------|-----|-------|------------------|----------------|---|---|---|---|---|
| | | | | | | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 23 | m 30 | 0 | m 15 | 11 | Ω 52 | 1 | ♋ 4 | 10 | ♋ 45 | | | | | | | |
| 2 | 23 | R 28 | 0 | 16 | 12 | 29 | 2 | 17 | 10 | R 9 | . | ☐ | * | | | * | ☐ |
| 3 | 23 | 25 | 0 | 17 | 13 | 6 | 3 | 31 | 9 | 32 | | | | Δ | ♈ | | |
| 4 | 23 | 22 | 0 | 18 | 13 | 43 | 4 | 45 | 8 | 56 | | Δ | | | ☐ | Δ | Δ |
| 5 | 23 | 19 | 0 | 19 | 14 | 20 | 5 | 58 | 8 | 22 | | | | ☐ | | | |
| 6 | 23 | 16 | 0 | 20 | 14 | 57 | 7 | 12 | 7 | 51 | | | ♈ | | | | |
| 7 | 23 | 13 | 0 | 22 | 15 | 35 | 8 | 26 | 7 | 22 | | | | * | | Δ | |
| 8 | 23 | 10 | 0 | 24 | 16 | 12 | 9 | 39 | 6 | 57 | | | | | * | ♈ | ♈ |
| 9 | 23 | 7 | 0 | 26 | 16 | 49 | 10 | 53 | 6 | 36 | | ♈ | | | | | |
| 10 | 23 | 4 | 0 | 28 | 17 | 27 | 12 | 7 | 6 | 18 | | | | | ☐ | | |
| 11 | 23 | 1 | 0 | 31 | 18 | 4 | 13 | 20 | 6 | 5 | | | * | | | | |
| 12 | 22 | 58 | 0 | 33 | 18 | 41 | 14 | 34 | 5 | 58 | | | | ♈ | | ♈ | |
| 13 | 22 | 54 | 0 | 36 | 19 | 19 | 15 | 48 | 5 | D 56 | | | ☐ | | Δ | | Δ |
| 14 | 22 | 51 | 0 | 39 | 19 | 56 | 17 | 1 | 5 | 59 | | Δ | | | | Δ | |
| 15 | 22 | 47 | 0 | 43 | 20 | 33 | 18 | 15 | 6 | 7 | | | | | | | ☐ |
| 16 | 22 | 44 | 0 | 46 | 21 | 11 | 19 | 29 | 6 | 21 | | | ♈ | | | | |
| 17 | 22 | 40 | 0 | 50 | 21 | 48 | 20 | 43 | 6 | 41 | | ☐ | | * | | Δ | ☐ |
| 18 | 22 | 36 | 0 | 53 | 22 | 25 | 21 | 57 | 7 | 6 | ♈ ♈ h | | | | ♈ | | * |
| 19 | 22 | 32 | 0 | 57 | 23 | 3 | 23 | 11 | 7 | 36 | | | ☐ | | | ☐ | * |
| 20 | 22 | 28 | 1 | 1 | 23 | 40 | 24 | 24 | 8 | 12 | | * | ♈ | | | | |
| 21 | 22 | 24 | 1 | 5 | 24 | 18 | 25 | 39 | 8 | 55 | | | | | | | |
| 22 | 22 | 20 | 1 | 9 | 24 | 55 | 26 | 52 | 9 | 44 | | | | | Δ | Δ | * |
| 23 | 22 | 16 | 1 | 14 | 25 | 33 | 28 | 6 | 10 | 38 | | | | | | | ♈ |
| 24 | 22 | 12 | 1 | 18 | 26 | 10 | 29 | 20 | 11 | 37 | ☉ ☐ ♈ | ♈ | | | ☐ | | ♈ |
| 25 | 22 | 8 | 1 | 23 | 26 | 48 | 0 | Ω 34 | 12 | 41 | | | Δ | | | | |
| 26 | 22 | 4 | 1 | 28 | 27 | 25 | 1 | 48 | 13 | 50 | ♀ ☐ ♈ | | | | ♈ | * | ♈ |
| 27 | 22 | 0 | 1 | 33 | 28 | 3 | 3 | 2 | 15 | 4 | | | ☐ | | | | * |
| 28 | 21 | 56 | 1 | 39 | 28 | 41 | 4 | 16 | 16 | 24 | | | | | | | |
| 29 | 21 | 52 | 1 | 44 | 29 | 19 | 5 | 30 | 17 | 48 | | * | * | | | | * |
| 30 | 21 | 48 | 1 | 49 | 29 | 57 | 6 | 44 | 19 | 17 | ☉ Δ ☐ | | | Δ | | | ☐ |
| 31 | 21 | 44 | 1 | 54 | 0 | m 35 | 7 | 58 | 20 | 52 | ♀ Δ ☐ | ☐ | | | ♈ | * | ☐ |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 15 | 47 | 0 N 2 | 21 S 32 | 1 S 19 | 15 S 33 | 1 N 5 | 11 S 10 |
| 4 | 15 | 47 | 0 2 | 21 32 | 1 19 | 15 37 | 1 5 | 11 17 |
| 7 | 15 | 48 | 0 2 | 21 32 | 1 20 | 15 42 | 1 4 | 11 24 |
| 10 | 15 | 48 | 0 2 | 21 32 | 1 20 | 15 47 | 1 3 | 11 32 |
| 13 | 15 | 49 | 0 2 | 21 31 | 1 20 | 15 51 | 1 2 | 11 40 |
| 16 | 15 | 49 | 0 2 | 21 31 | 1 20 | 15 55 | 1 2 | 11 48 |
| 19 | 15 | 50 | 0 2 | 21 31 | 1 20 | 16 0 | 1 1 | 11 57 |
| 22 | 15 | 50 | 0 2 | 21 31 | 1 20 | 16 4 | 1 1 | 12 6 |
| 25 | 15 | 51 | 0 2 | 21 31 | 1 21 | 16 9 | 1 0 | 12 16 |
| 28 | 15 | 51 | 0 2 | 21 32 | 1 21 | 16 13 | 1 0 | 12 26 |
| 31 | 15 | 52 | 0 2 | 21 32 | 1 21 | 16 17 | 0 59 | 12 36 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | Th | 8 39 55 | 9 2 1 21 | 18 N 1 | 20 m 34 | 2 N 2 | 15 S 57 | 7 f 25 |
| 2 | F | 8 43 51 | 9 58 47 | 17 46 | 4 f 7 | 0 53 | 20 8 | 7 B 24 |
| 3 | S | 8 47 48 | 10 56 14 | 17 30 | 17 23 | 0 S 18 | 23 10 | 7 24 |
| 4 | S | 8 51 44 | 11 53 42 | 17 14 | 0 w 27 | 1 27 | 24 55 | 7 23 |
| 5 | M | 8 55 41 | 12 51 10 | 16 58 | 13 18 | 2 30 | 25 17 | 7 23 |
| 6 | Tu | 8 59 37 | 13 48 40 | 16 42 | 25 58 | 3 24 | 24 19 | 7 22 |
| 7 | W | 9 3 34 | 14 46 10 | 16 25 | 8 m 27 | 4 8 | 22 9 | 7 22 |
| 8 | Th | 9 7 30 | 15 43 41 | 16 8 | 20 47 | 4 40 | 19 0 | 7 21 |
| 9 | F | 9 11 27 | 16 41 14 | 15 51 | 2 x 57 | 4 58 | 15 3 | 7 21 |
| 10 | S | 9 15 24 | 17 38 48 | 15 34 | 15 0 | 5 2 | 10 33 | 7 21 |
| 11 | S | 9 19 20 | 18 36 23 | 15 16 | 26 56 | 4 54 | 5 43 | 7 20 |
| 12 | M | 9 23 17 | 19 33 59 | 14 58 | 8 r 48 | 4 32 | 0 41 | 7 20 |
| 13 | Tu | 9 27 13 | 20 31 37 | 14 40 | 20 38 | 3 59 | 4 N 22 | 7 D 20 |
| 14 | W | 9 31 10 | 21 29 17 | 14 21 | 2 x 31 | 3 16 | 9 18 | 7 20 |
| 15 | Th | 9 35 6 | 22 26 58 | 14 3 | 14 32 | 2 23 | 18 56 | 7 20 |
| 16 | F | 9 39 3 | 23 24 41 | 13 44 | 26 44 | 1 23 | 18 6 | 7 21 |
| 17 | S | 9 42 59 | 24 22 25 | 13 25 | 9 □ 13 | 0 18 | 21 34 | 7 21 |
| 18 | S | 9 46 56 | 25 20 11 | 13 5 | 22 5 | 0 N 50 | 24 4 | 7 21 |
| 19 | M | 9 50 53 | 26 17 59 | 12 46 | 5 x 23 | 1 58 | 25 19 | 7 21 |
| 20 | Tu | 9 54 49 | 27 15 49 | 12 26 | 19 9 | 3 1 | 25 5 | 7 21 |
| 21 | W | 9 58 46 | 28 13 40 | 12 6 | 3 2 24 | 3 55 | 23 13 | 7 21 |
| 22 | Th | 10 2 42 | 29 11 33 | 11 46 | 18 4 | 4 35 | 19 47 | 7 22 |
| 23 | F | 10 6 39 | 0 m 9 27 | 11 26 | 3 m 2 | 4 57 | 15 1 | 7 23 |
| 24 | S | 10 10 35 | 1 7 23 | 11 5 | 18 9 | 4 59 | 9 16 | 7 23 |
| 25 | S | 10 14 32 | 2 5 20 | 10 45 | 3 x 15 | 4 40 | 2 59 | 7 23 |
| 26 | M | 10 18 28 | 3 3 19 | 10 24 | 18 10 | 4 2 | 3 S 24 | 7 24 |
| 27 | Tu | 10 22 24 | 4 1 19 | 10 3 | 2 m 47 | 3 9 | 9 29 | 7 24 |
| 28 | W | 10 26 20 | 4 59 20 | 9 42 | 17 1 | 2 5 | 14 57 | 7 25 |
| 29 | Th | 10 30 16 | 5 57 23 | 9 20 | 0 f 51 | 0 56 | 19 27 | 7 25 |
| 30 | F | 10 34 12 | 6 55 27 | 8 59 | 14 19 | 0 S 15 | 22 49 | 7 25 |
| 31 | S | 10 38 8 | 7 53 32 | 8 37 | 27 27 | 1 24 | 24 50 | 7 26 |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 N 2 | 21 S 33 | 1 21 | 16 S 19 | 0 N 0 | 12 S 39 |
| 4 | 15 | 54 | 0 2 | 21 33 | 1 21 | 16 22 | 0 58 | 12 49 |
| 7 | 15 | 55 | 0 2 | 21 34 | 1 21 | 16 23 | 0 57 | 13 0 |
| 10 | 15 | 56 | 0 2 | 21 35 | 1 21 | 16 30 | 0 57 | 13 11 |
| 13 | 15 | 57 | 0 2 | 21 35 | 1 21 | 16 33 | 0 56 | 13 21 |
| 16 | 15 | 57 | 0 2 | 21 36 | 1 21 | 16 36 | 0 56 | 13 32 |
| 19 | 15 | 58 | 0 2 | 21 36 | 1 21 | 16 39 | 0 55 | 13 43 |
| 22 | 15 | 59 | 0 2 | 21 37 | 1 21 | 16 42 | 0 55 | 13 54 |
| 25 | 16 | 0 | 0 2 | 21 39 | 1 21 | 16 44 | 0 54 | 14 5 |
| 28 | 16 | 0 | 0 2 | 21 40 | 1 21 | 16 46 | 0 54 | 14 16 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|----|----|------------|-------------|------------|-----------|-------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 10 | 42 | 4 | 8 51 38 | 8 N 15 | 10 w 17 | 2 26 | 25 S 30 | 7 27 |
| 2 | M | 10 | 46 | 1 | 9 49 46 | 7 53 | 22 53 | 3 20 | 24 48 | 7 28 |
| 3 | Tu | 10 | 49 | 57 | 10 47 55 | 7 31 | 5 w 18 | 4 22 | 64 | 7 29 |
| 4 | W | 10 | 53 | 54 | 11 46 6 | 7 9 | 17 33 | 4 35 | 19 57 | 7 30 |
| 5 | Th | 10 | 57 | 51 | 12 44 19 | 6 47 | 29 41 | 4 54 | 16 11 | 7 31 |
| 6 | | | | | | | | | | 32 |
| 7 | | | | | | | | | | 33 |
| 8 | | | | | | | | | | 34 |
| 9 | | | | | | | | | | 35 |
| 10 | | | | | | | | | | 36 |
| 11 | | | | | | | | | | 37 |
| 12 | | | | | | | | | | 38 |
| 13 | | | | | | | | | | 39 |
| 14 | | | | | | | | | | 40 |
| 15 | | | | | | | | | | 41 |
| 16 | | | | | | | | | | 42 |
| 17 | | | | | | | | | | 43 |
| 18 | | | | | | | | | | 44 |
| 19 | | | | | | | | | | 45 |
| 20 | | | | | | | | | | 46 |
| 21 | S | 12 | 0 | 55 | 28 20 14 | 0 40 | 26 31 | 4 43 | 5 48 | 7 54 |
| 22 | S | 12 | 4 | 52 | 29 19 2 | 0 16 | 11 49 | 4 14 | 0 S 47 | 7 56 |
| 23 | M | 12 | 8 | 48 | 0 17 52 | 0 S 7 | 26 59 | 3 22 | 7 16 | 7 53 |
| 24 | Tu | 12 | 12 | 45 | 1 16 44 | 0 31 | 11 w 51 | 2 17 | 13 14 | 8 0 |
| 25 | W | 12 | 16 | 42 | 2 15 38 | 0 54 | 26 19 | 1 5 | 18 18 | 8 2 |
| 26 | Th | 12 | 20 | 38 | 3 14 33 | 1 17 | 10 f 19 | 0 8 | 9 22 | 8 4 |
| 27 | F | 12 | 24 | 35 | 4 13 31 | 1 41 | 23 52 | 1 21 | 24 40 | 8 6 |
| 28 | S | 12 | 28 | 31 | 5 12 29 | 2 4 | 7 w 0 | 2 26 | 25 42 | 8 8 |
| 29 | S | 12 | 32 | 28 | 6 11 30 | 2 28 | 19 47 | 3 21 | 26 19 | 8 10 |
| 30 | M | 12 | 36 | 24 | 7 10 23 | 3 51 | 2 w 17 | 4 6 | 23 40 | 8 12 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° , | ° , | ° , | ° , | ° , | ° , | ° , |
| 1 | 0 N 53 | 4 N 26 | 1 N 24 | 6 N 13 | 0 N 52 | 4 N 8 | 10 □ 52 |
| 4 | 0 52 | 3 39 | 1 22 | 4 39 | 0 32 | 1 51 | 10 42 |
| 7 | 0 51 | 2 52 | 1 19 | 3 12 | 0 11 | 0 S 24 | 10 33 |
| 10 | 0 49 | 2 4 | 1 16 | 1 40 | 0 S 11 | 2 36 | 10 23 |
| 13 | 0 48 | 1 17 | 1 13 | 0 8 | 0 35 | 4 44 | 10 14 |
| 16 | 0 47 | 0 29 | 1 9 | 1 S 25 | 0 58 | 6 47 | 10 4 |
| 19 | 0 46 | 0 S 18 | 1 5 | 2 56 | 1 22 | 8 45 | 9 55 |
| 22 | 0 44 | 1 6 | 1 0 | 4 28 | 1 44 | 10 36 | 9 45 |
| 25 | 0 43 | 1 53 | 0 54 | 5 59 | 2 6 | 12 19 | 9 36 |
| 28 | 0 42 | 2 41 | 0 48 | 7 29 | 2 27 | 13 54 | 9 26 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|-------|---------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ | ♂ |
| | ° , | ° , | ° , | ° , | ° , | | | | | | | | |
| 1 | 19 = 22 | 6 m 5 | 20 m 53 | 17 m 33 | 21 m 34 | ♂ ♂ ♂ | Δ | | | * | | | |
| 2 | 19 18 | 6 15 | 21 32 | 18 47 | 23 16 | | | | | | Δ | Δ | Δ |
| 3 | 19 14 | 6 25 | 22 10 | 20 2 | 24 56 | | | * | | □ | | | |
| 4 | 19 10 | 6 35 | 22 49 | 21 16 | 26 35 | | | | ♂ | | | | |
| 5 | 19 6 | 6 45 | 23 27 | 22 30 | 28 13 | | | | | | | | |
| 6 | 19 2 | 6 55 | 24 6 | 23 45 | 29 50 | | ♂ | □ | | Δ | | | |
| 7 | 18 59 | 7 5 | 24 45 | 24 59 | 1 = 26 | ♀ ♂ ♂ | | | | | ♂ | ♂ | ♂ |
| 8 | 18 55 | 7 15 | 25 24 | 26 13 | 3 1 | | | Δ | | | | | ♂ |
| 9 | 18 51 | 7 26 | 26 3 | 27 28 | 4 34 | | | | * | | | | |
| 10 | 18 48 | 7 36 | 26 41 | 28 42 | 6 6 | | | | | | | | |
| 11 | 18 44 | 7 47 | 27 20 | 29 57 | 7 37 | ♀ * ♄ | | | | | ♂ | | |
| 12 | 18 40 | 7 57 | 27 59 | 1 = 11 | 9 7 | | Δ | | □ | | Δ | | |
| 13 | 18 37 | 8 8 | 28 38 | 2 26 | 10 37 | | | ♂ | | | | Δ | Δ |
| 14 | 18 33 | 8 19 | 29 17 | 3 40 | 12 6 | | □ | | Δ | | | | |
| 15 | 18 30 | 8 30 | 29 56 | 4 55 | 13 33 | | | | | | □ | □ | |
| 16 | 18 27 | 8 41 | 0 = 34 | 6 9 | 14 58 | | | | | | Δ | | □ |
| 17 | 18 23 | 8 52 | 1 13 | 7 24 | 16 22 | ♀ * ♄ | * | | | | * | | |
| 18 | 18 20 | 9 3 | 1 52 | 8 38 | 17 45 | ♀ Δ ♄ | | Δ | ♂ | □ | | * | * |
| 19 | 18 17 | 9 14 | 2 31 | 9 53 | 19 7 | | | | | | | | |
| 20 | 18 14 | 9 25 | 3 10 | 11 7 | 20 28 | | | □ | | * | | | |
| 21 | 18 11 | 9 36 | 3 43 | 12 22 | 21 48 | | ♂ | | | | | ♂ | |
| 22 | 18 8 | 9 48 | 4 28 | 13 36 | 23 6 | | | * | Δ | | | ♂ | ♂ |
| 23 | 18 5 | 9 59 | 5 7 | 14 51 | 24 23 | | | | | | | | ♂ |
| 24 | 18 2 | 10 10 | 5 46 | 16 5 | 25 38 | | | | □ | ♂ | | | |
| 25 | 18 0 | 10 22 | 6 26 | 17 20 | 26 52 | | * | | | | | | |
| 26 | 17 58 | 10 34 | 7 5 | 18 34 | 28 4 | ♀ Δ ♄ | | ♂ | | | * | | |
| 27 | 17 55 | 10 46 | 7 44 | 19 48 | 29 15 | | | | * | | | * | * |
| 28 | 17 53 | 10 58 | 8 23 | 21 3 | 0 m 24 | ♂ * ♄ | □ | | | * | □ | | |
| 29 | 17 50 | 11 10 | 9 3 | 22 17 | 1 31 | | | | | | | □ | |
| 30 | 17 48 | 11 22 | 9 42 | 23 31 | 2 35 | | Δ | * | | | Δ | | □ |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 N | 21 S 41 | 1 S 21 | 16 S 48 | 0 N 54 | 14 S 28 |
| 4 | 16 | 1 | 0 | 21 43 | 1 21 | 16 49 | 0 54 | 14 39 |
| 7 | 16 | 2 | 0 | 21 44 | 1 21 | 16 51 | 0 54 | 14 51 |
| 10 | 16 | 3 | 0 | 21 45 | 1 21 | 16 52 | 0 54 | 15 3 |
| 18 | 16 | 4 | 0 | 21 46 | 1 20 | 16 53 | 0 53 | 15 14 |
| 16 | 16 | 5 | 0 | 21 47 | 1 20 | 16 54 | 0 53 | 15 26 |
| 19 | 16 | 5 | 0 | 21 48 | 1 20 | 16 54 | 0 52 | 15 37 |
| 22 | 16 | 6 | 0 | 21 49 | 1 20 | 16 54 | 0 52 | 15 49 |
| 25 | 16 | 7 | 0 | 21 51 | 1 20 | 16 54 | 0 51 | 16 0 |
| 28 | 16 | 7 | 0 | 21 52 | 1 20 | 16 53 | 0 51 | 16 11 |
| 31 | 16 | 8 | 0 | 21 53 | 1 20 | 16 52 | 0 51 | 16 22 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Tu | 12 40 21 | 8 9 36 | 3 S 14 | 14 m 33 | 4 S 39 | 20 S 55 | 8 f 14 |
| 2 | W | 12 44 17 | 9 8 42 | 3 38 | 26 40 | 4 58 | 17 18 | 8 16 |
| 3 | Th | 12 48 14 | 10 7 49 | 4 1 | 8 x 39 | 5 4 | 13 2 | 8 18 |
| 4 | F | 12 52 11 | 11 6 59 | 4 24 | 20 35 | 4 57 | 8 17 | 8 20 |
| 5 | S | 12 56 7 | 12 6 10 | 4 47 | 2 r 27 | 4 37 | 3 15 | 8 22 |
| 6 | S | 13 0 4 | 13 5 24 | 5 10 | 14 18 | 4 5 | 1 N 53 | 8 24 |
| 7 | M | 13 4 0 | 14 4 39 | 5 38 | 26 10 | 3 22 | 6 59 | 8 27 |
| 8 | Tu | 13 7 57 | 15 3 57 | 5 56 | 8 x 4 | 2 30 | 11 51 | 8 30 |
| 9 | W | 13 11 53 | 16 3 17 | 6 19 | 20 3 | 1 31 | 16 19 | 8 33 |
| 10 | Th | 13 16 50 | 17 2 39 | 6 42 | 2 II 8 | 0 27 | 20 10 | 8 36 |
| 11 | F | 13 19 46 | 18 2 3 | 7 5 | 14 23 | 0 N 89 | 23 11 | 8 39 |
| 12 | S | 13 23 43 | 19 1 30 | 7 27 | 26 52 | 1 44 | 25 10 | 8 42 |
| 13 | S | 13 27 39 | 20 0 59 | 7 50 | 9 x 38 | 2 46 | 25 52 | 8 46 |
| 14 | M | 13 31 36 | 21 0 31 | 8 12 | 22 46 | 3 41 | 25 10 | 8 48 |
| 15 | Tu | 13 35 33 | 22 0 5 | 8 35 | 6 Ω 19 | 4 26 | 23 0 | 8 50 |
| 16 | W | 13 39 29 | 22 59 41 | 8 57 | 20 18 | 4 56 | 19 24 | 8 53 |
| 17 | Th | 13 43 26 | 23 59 20 | 9 19 | 4 m 44 | 5 9 | 14 34 | 8 56 |
| 18 | F | 13 47 22 | 24 59 1 | 9 41 | 19 34 | 5 2 | 8 46 | 8 58 |
| 19 | S | 13 51 19 | 25 58 44 | 10 3 | 4 x 40 | 4 34 | 2 21 | 9 1 |
| 20 | S | 13 55 15 | 26 58 30 | 10 24 | 19 54 | 3 47 | 4 S 17 | 9 4 |
| 21 | M | 13 59 12 | 27 58 17 | 10 46 | 5 m 5 | 2 43 | 10 40 | 9 6 |
| 22 | Tu | 14 3 8 | 28 58 6 | 11 7 | 20 2 | 1 29 | 16 20 | 9 9 |
| 23 | W | 14 7 5 | 29 57 58 | 11 28 | 4 f 39 | 0 11 | 20 55 | 9 12 |
| 24 | Th | 14 11 2 | 0 m 57 51 | 11 49 | 18 50 | 1 S 6 | 24 5 | 9 15 |
| 25 | F | 14 14 59 | 1 57 46 | 12 10 | 2 v 32 | 2 17 | 25 43 | 9 18 |
| 26 | S | 14 18 56 | 2 57 43 | 12 31 | 15 48 | 3 18 | 25 48 | 9 21 |
| 27 | S | 14 22 53 | 3 57 41 | 12 51 | 28 40 | 4 7 | 24 28 | 9 24 |
| 28 | M | 14 26 50 | 4 57 41 | 13 11 | 11 m 11 | 4 42 | 21 57 | 9 28 |
| 29 | Tu | 14 30 46 | 5 57 43 | 13 31 | 23 26 | 5 4 | 18 30 | 9 32 |
| 30 | W | 14 34 43 | 6 57 45 | 13 51 | 5 x 30 | 5 13 | 14 21 | 9 35 |
| 31 | Th | 14 38 40 | 7 57 50 | 14 11 | 17 26 | 5 7 | 9 41 | 9 38 |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 N 1 | 21 8 54 | 1 8 19 | 16 8 51 | 0 N 50 | 16 8 26 |
| 4 | 16 | 10 | 0 1 | 21 56 | 1 19 | 16 50 | 0 50 | 16 37 |
| 7 | 16 | 11 | 0 1 | 21 57 | 1 19 | 16 48 | 0 50 | 16 48 |
| 10 | 16 | 12 | 0 1 | 21 59 | 1 19 | 16 46 | 0 50 | 16 59 |
| 13 | 16 | 12 | 0 1 | 22 1 | 1 18 | 16 44 | 0 50 | 17 10 |
| 16 | 16 | 13 | 0 1 | 22 2 | 1 18 | 16 41 | 0 50 | 17 21 |
| 19 | 16 | 14 | 0 1 | 22 3 | 1 18 | 16 39 | 0 49 | 17 31 |
| 22 | 16 | 14 | 0 1 | 22 5 | 1 18 | 16 37 | 0 49 | 17 42 |
| 25 | 16 | 15 | 0 1 | 22 7 | 1 18 | 16 33 | 0 49 | 17 52 |
| 28 | 16 | 15 | 0 1 | 22 8 | 1 18 | 16 30 | 0 49 | 18 2 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|----------------------|-------------|--------------------|-------------------|-------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 14 42 37 | 8 ^m 57 56 | 14 8 30 | 29 ^x 18 | 4 8 49 | 4 8 41 | 9 ^f 41 |
| 2 | S | 14 46 34 | 9 58 4 | 14 49 | 11 ^r 9 | 4 18 | 0 N 28 | 9 41 |
| 3 | S | 14 50 31 | 10 58 14 | 15 8 23 | 2 | 3 35 | 5 37 | 9 47 |
| 4 | M | 14 54 27 | 11 58 26 | 15 27 | 4 ^o 58 | 3 44 | 10 37 | 9 51 |
| 5 | Tu | 14 58 21 | 12 58 39 | 15 45 | 17 0 | 1 44 | 15 16 | 9 54 |
| 6 | W | 15 2 20 | 13 58 54 | 16 3 29 | 9 | 0 ^o 39 | 19 21 | 9 57 |
| 7 | Th | 15 6 17 | 14 59 11 | 16 21 | 11 ^π 27 | 0 N 29 | 22 39 | 10 1 |
| 8 | F | 15 10 13 | 15 59 30 | 16 38 23 | 55 | 1 36 | 24 55 | 10 5 |
| 9 | S | 15 14 10 | 16 59 50 | 16 57 | 6 ^o 36 | 2 40 | 25 58 | 10 8 |
| 10 | S | 15 18 6 | 18 0 13 | 17 13 | 19 31 | 3 37 | 25 37 | 10 12 |
| 11 | M | 15 22 3 | 19 0 38 | 17 29 | 2 ^Ω 43 | 4 23 | 23 51 | 10 15 |
| 12 | Tu | 15 26 0 | 20 1 5 | 17 46 | 16 14 | 4 57 | 20 43 | 10 19 |
| 13 | W | 15 29 56 | 21 1 34 | 18 2 | 0 ^m 5 | 5 14 | 16 21 | 10 22 |
| 14 | Th | 15 33 53 | 22 2 4 | 18 18 | 14 15 | 5 13 | 11 1 | 10 26 |
| 15 | F | 15 37 49 | 23 2 37 | 18 33 | 28 45 | 4 53 | 4 58 | 10 29 |
| 16 | S | 15 41 46 | 24 3 12 | 18 48 | 13 ^Δ 28 | 4 12 | 18 27 | 10 32 |
| 17 | S | 15 45 42 | 25 3 48 | 19 3 | 28 21 | 3 15 | 7 52 | 10 36 |
| 18 | M | 15 49 39 | 26 4 26 | 19 18 | 13 ^m 14 | 2 4 | 13 51 | 10 40 |
| 19 | Tu | 15 53 35 | 27 5 6 | 19 32 | 28 0 | 0 45 | 19 0 | 10 44 |
| 20 | W | 15 57 32 | 28 5 47 | 19 45 | 12 ^f 33 | 0 8 | 35 22 | 54 10 47 |
| 21 | Th | 16 1 29 | 29 6 29 | 19 59 | 26 45 | 1 52 | 25 17 | 10 51 |
| 22 | F | 16 5 25 | 0 ^f 7 13 | 20 12 | 10 ^v 32 | 2 59 | 26 1 | 10 54 |
| 23 | S | 16 9 22 | 1 7 58 | 20 24 | 23 55 | 3 55 | 25 12 | 10 58 |
| 24 | S | 16 13 18 | 2 8 44 | 20 37 | 6 ^m 54 | 4 37 | 23 2 | 11 2 |
| 25 | M | 16 17 15 | 3 9 31 | 20 49 | 19 30 | 5 4 | 19 48 | 11 5 |
| 26 | Tu | 16 21 11 | 4 10 19 | 21 0 | 1 ^x 49 | 5 17 | 15 46 | 11 9 |
| 27 | W | 16 25 8 | 5 11 9 | 21 11 | 13 54 | 5 15 | 11 11 | 11 13 |
| 28 | Th | 16 29 4 | 6 11 59 | 21 22 | 25 49 | 4 59 | 6 14 | 11 16 |
| 29 | F | 16 33 1 | 7 12 50 | 21 32 | 7 ^r 41 | 4 31 | 1 6 | 11 20 |
| 30 | S | 16 36 58 | 8 13 42 | 21 42 | 19 32 | 3 51 | 4 N 5 | 11 23 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 26 | 11 S 27 | 0 S 37 | 21 S 26 | 1 N 12 | 9 S 7 | 7 ♀ 39 |
| 4 | 0 25 | 12 10 | 0 44 | 22 12 | 1 50 | 8 15 | 7 29 |
| 7 | 0 23 | 12 53 | 0 53 | 22 56 | 2 11 | 8 15 | 7 19 |
| 10 | 0 21 | 13 34 | 1 1 | 23 31 | 2 19 | 8 56 | 7 10 |
| 13 | 0 19 | 14 16 | 1 7 | 24 3 | 2 16 | 10 5 | 7 0 |
| 16 | 0 18 | 14 56 | 1 14 | 24 25 | 2 6 | 11 30 | 6 51 |
| 19 | 0 16 | 15 36 | 1 21 | 24 44 | 1 52 | 13 5 | 6 41 |
| 22 | 0 15 | 16 14 | 1 28 | 24 57 | 1 34 | 14 42 | 6 32 |
| 25 | 0 13 | 16 51 | 1 32 | 24 58 | 1 14 | 16 18 | 6 22 |
| 28 | 0 11 | 17 28 | 1 37 | 24 55 | 0 53 | 17 50 | 6 13 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 17 31 | 18 7 | 1 2 | 3 13 | 26 29 | | | | | | Δ | | |
| 2 | 17 32 | 18 20 | 1 43 | 4 27 | 26 1 | | | Δ | | | | | |
| 3 | 17 33 | 18 33 | 2 24 | 5 41 | 25 46 | | | | * | | | | ♂ |
| 4 | 17 34 | 18 46 | 3 4 | 6 56 | 25 45 | | | | | | ♂ | | |
| 5 | 17 36 | 18 59 | 3 45 | 8 10 | 25 54 | | ♂ | | □ | ♂ | | | |
| 6 | 17 37 | 19 12 | 4 26 | 9 24 | 26 12 | ♀ ☉ ♄ | | | | | | | |
| 7 | 17 39 | 19 26 | 5 7 | 10 39 | 26 40 | | | ♂ | Δ | | | ♂ | |
| 8 | 17 41 | 19 39 | 5 47 | 11 53 | 27 17 | | | | | | | | Δ |
| 9 | 17 43 | 19 52 | 6 28 | 13 7 | 28 2 | | | | | | Δ | | |
| 10 | 17 45 | 20 6 | 7 9 | 14 21 | 28 54 | ☉ □ ♄ | Δ | | | Δ | | | |
| 11 | 17 47 | 20 19 | 7 50 | 15 36 | 29 52 | | | Δ | | | | | □ |
| 12 | 17 49 | 20 32 | 8 31 | 16 50 | 0 56 | | □ | | ♂ | □ | | Δ | |
| 13 | 17 51 | 20 46 | 9 12 | 18 4 | 2 15 | ☉ ☉ ♄ | | | | * | * | □ | * |
| 14 | 17 54 | 20 59 | 9 53 | 19 18 | 3 18 | | | □ | | * | * | □ | |
| 15 | 17 56 | 21 12 | 10 34 | 20 32 | 4 34 | | * | | | | | | |
| 16 | 17 59 | 21 26 | 11 15 | 21 47 | 5 53 | | | * | Δ | | | | |
| 17 | 18 1 | 21 39 | 11 56 | 23 1 | 7 15 | | | | | | | * | |
| 18 | 18 4 | 21 52 | 12 37 | 24 15 | 8 38 | | | | □ | ♂ | ♂ | | ♂ |
| 19 | 18 7 | 22 6 | 13 19 | 25 30 | 10 3 | | ♂ | | | ♂ | | | |
| 20 | 18 10 | 22 19 | 14 0 | 26 44 | 11 29 | | | ♂ | * | | | | |
| 21 | 18 13 | 22 32 | 14 41 | 27 58 | 12 57 | | | | | | | * | ♂ |
| 22 | 18 16 | 22 45 | 15 23 | 29 12 | 14 27 | | | | | | * | | * |
| 23 | 18 19 | 22 58 | 16 4 | 0 27 | 15 57 | ♂ ☉ ♂ | | | | * | | | |
| 24 | 18 22 | 23 11 | 16 45 | 1 41 | 17 28 | ♂ □ ♄ | * | * | | | | | |
| 25 | 18 25 | 23 25 | 17 27 | 2 55 | 19 0 | | | | ♂ | □ | □ | | □ |
| 26 | 18 28 | 23 38 | 18 8 | 4 9 | 20 32 | ♂ □ ♄ | | | | | | * | |
| 27 | 18 31 | 23 51 | 18 50 | 5 23 | 22 4 | | □ | □ | | | Δ | | |
| 28 | 18 34 | 24 4 | 19 32 | 6 37 | 23 36 | ♂ ☉ ♄ | | | | Δ | | | Δ |
| 29 | 18 37 | 24 17 | 20 14 | 7 51 | 25 8 | | Δ | Δ | | | | □ | |
| 30 | 18 40 | 24 30 | 20 56 | 9 5 | 26 41 | | | | * | | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 1 | 22 S 10 | 1 S 17 | 16 S 26 | 0 N 49 | 18 S 11 |
| 4 | 16 | 15 | 0 1 | 22 11 | 1 17 | 16 22 | 0 49 | 18 20 |
| 7 | 16 | 16 | 0 1 | 22 13 | 1 17 | 16 18 | 0 49 | 18 30 |
| 10 | 16 | 16 | 0 1 | 22 15 | 1 17 | 16 13 | 0 49 | 18 39 |
| 13 | 16 | 16 | 0 1 | 22 17 | 1 17 | 16 9 | 0 48 | 18 48 |
| 16 | 16 | 16 | 0 1 | 22 18 | 1 17 | 16 4 | 0 48 | 18 56 |
| 19 | 16 | 17 | 0 1 | 22 19 | 1 16 | 15 59 | 0 48 | 19 5 |
| 22 | 16 | 17 | 0 1 | 22 20 | 1 16 | 15 55 | 0 48 | 19 13 |
| 25 | 16 | 17 | 0 1 | 22 22 | 1 16 | 15 48 | 0 48 | 19 21 |
| 28 | 16 | 17 | 0 1 | 22 23 | 1 16 | 15 43 | 0 48 | 19 28 |
| 31 | 16 | 17 | 0 1 | 22 24 | 1 16 | 15 38 | 0 48 | 19 33 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 16 40 54 | 9 ♄ 14 34 | 21 S 52 | 1 ♄ 27 | 3 S 2 | 9 N 9 | 11 ♄ 27 |
| 2 | M | 16 44 51 | 10 15 28 | 22 13 28 | 2 13 28 | 2 3 13 | 13 56 | 11 30 |
| 3 | Tu | 16 48 47 | 11 16 23 | 22 9 25 | 40 0 59 | 18 15 | 11 34 | 11 34 |
| 4 | W | 16 52 44 | 12 17 18 | 22 17 8 | 2 0 N 10 | 21 50 | 11 37 | 11 37 |
| 5 | Th | 16 56 40 | 13 18 15 | 22 25 20 | 38 1 19 | 24 57 | 11 41 | 11 41 |
| 6 | F | 17 0 37 | 14 19 12 | 22 33 3 | 27 2 25 | 25 50 | 11 45 | 11 45 |
| 7 | S | 17 4 33 | 15 20 11 | 22 39 16 | 29 3 25 | 25 50 | 11 49 | 11 49 |
| 8 | S | 17 8 30 | 16 21 11 | 22 46 29 | 45 4 15 | 24 22 | 11 53 | 11 53 |
| 9 | M | 17 12 27 | 17 22 12 | 22 52 13 | 14 4 52 | 21 31 | 11 56 | 11 56 |
| 10 | Tu | 17 16 23 | 18 23 14 | 22 57 26 | 55 5 12 | 17 26 | 12 0 | 12 0 |
| 11 | W | 17 20 20 | 19 24 17 | 23 2 10 | 48 5 15 | 12 23 | 12 4 | 12 4 |
| 12 | Th | 17 24 16 | 20 25 21 | 23 7 24 | 52 5 0 | 6 38 | 12 8 | 12 8 |
| 13 | F | 17 28 13 | 21 26 27 | 23 11 9 | 4 4 26 | 0 28 | 12 11 | 12 11 |
| 14 | S | 17 32 9 | 22 27 33 | 23 15 23 | 24 3 35 | 5 S 46 | 12 15 | 12 15 |
| 15 | S | 17 36 6 | 23 28 40 | 23 18 7 | 49 2 31 | 11 45 | 12 19 | 12 19 |
| 16 | M | 17 40 2 | 24 29 48 | 23 21 22 | 14 1 17 | 17 7 | 12 22 | 12 22 |
| 17 | Tu | 17 43 59 | 25 30 57 | 23 23 6 | ♄ 35 0 S | 2 21 | 12 26 | 12 26 |
| 18 | W | 17 47 56 | 26 32 7 | 23 25 20 | 47 1 19 | 24 28 | 12 30 | 12 30 |
| 19 | Th | 17 51 52 | 27 33 17 | 23 27 4 | 45 2 31 | 25 54 | 12 33 | 12 33 |
| 20 | F | 17 55 49 | 28 34 28 | 23 27 18 | 26 3 32 | 25 42 | 12 36 | 12 36 |
| 21 | S | 17 59 45 | 29 35 39 | 23 28 1 | 47 4 20 | 24 0 | 12 40 | 12 40 |
| 22 | S | 18 3 42 | 0 ♄ 36 50 | 23 28 14 | 46 4 53 | 21 5 | 12 44 | 12 44 |
| 23 | M | 18 7 38 | 1 38 1 | 23 27 27 | 26 5 10 | 17 14 | 12 47 | 12 47 |
| 24 | Tu | 18 11 35 | 2 39 12 | 23 26 9 | ♄ 47 5 13 | 12 44 | 12 50 | 12 50 |
| 25 | W | 18 15 31 | 3 40 24 | 23 25 21 | 54 5 2 | 7 50 | 12 53 | 12 53 |
| 26 | Th | 18 19 28 | 4 41 35 | 23 23 3 | 51 4 37 | 2 43 | 13 57 | 13 57 |
| 27 | F | 18 23 25 | 5 42 46 | 23 20 15 | 42 4 1 | 2 N 28 | 13 1 | 13 1 |
| 28 | S | 18 27 21 | 6 43 57 | 23 18 27 | 33 3 15 | 7 35 | 13 5 | 13 5 |
| 29 | S | 18 31 18 | 7 45 8 | 23 14 9 | ♄ 29 2 20 | 13 27 | 13 8 | 13 8 |
| 30 | M | 18 35 14 | 8 46 18 | 23 10 21 | 33 1 18 | 16 55 | 13 11 | 13 11 |
| 31 | Tu | 18 39 11 | 9 47 28 | 23 6 3 | ♄ 51 0 12 | 20 45 | 13 15 | 13 15 |

DECEMBER XXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 9 | 18 8 8 | 1 8 42 | 24 8 45 | 0 N 81 | 19 8 17 | 6 11 8 |
| 4 | 0 8 | 18 35 | 1 47 | 24 27 | 0 10 | 20 36 | 5 53 |
| 7 | 0 6 | 19 9 | 1 49 | 21 6 | 0 8 11 | 21 46 | 5 44 |
| 10 | 0 4 | 19 39 | 1 51 | 23 33 | 0 30 | 22 47 | 5 34 |
| 13 | 0 2 | 20 9 | 1 54 | 23 0 | 0 49 | 23 36 | 5 25 |
| 16 | 0 0 | 20 36 | 1 55 | 22 14 | 1 7 | 24 19 | 5 15 |
| 19 | 0 8 | 21 8 | 1 56 | 21 31 | 1 23 | 24 48 | 5 6 |
| 22 | 0 4 | 21 28 | 1 55 | 20 36 | 1 37 | 25 4 | 4 56 |
| 25 | 0 6 | 21 51 | 1 54 | 19 39 | 1 49 | 25 8 | 4 47 |
| 28 | 0 8 | 22 11 | 1 53 | 18 33 | 1 58 | 24 59 | 4 37 |
| 31 | 0 10 | 22 30 | 1 51 | 17 29 | 2 5 | 24 36 | 4 28 |

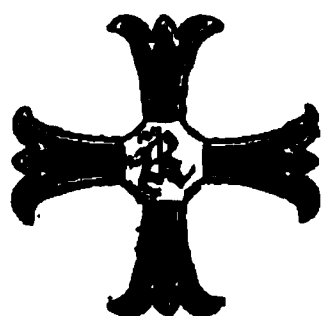
[illegible]

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1817.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

(H. W.) 9392.153

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1817.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1888.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 1 | 22 8 24 | 1 S 16 | 15 S 35 | 0 N 48 | 19 8 38 |
| 4 | 16 | 15 | 0 1 | 22 26 | 1 16 | 15 29 | 0 48 | 19 45 |
| 7 | 16 | 16 | 0 1 | 22 27 | 1 16 | 15 23 | 0 48 | 19 52 |
| 10 | 16 | 16 | 0 1 | 22 28 | 1 16 | 15 17 | 0 48 | 19 59 |
| 13 | 16 | 17 | 0 1 | 22 29 | 1 16 | 15 10 | 0 48 | 20 5 |
| 16 | 16 | 17 | 0 1 | 22 30 | 1 16 | 15 3 | 0 48 | 20 11 |
| 19 | 16 | 17 | 0 1 | 22 31 | 1 16 | 14 57 | 0 49 | 20 16 |
| 22 | 16 | 18 | 0 1 | 22 32 | 1 16 | 14 50 | 0 49 | 20 21 |
| 25 | 16 | 18 | 0 1 | 22 32 | 1 16 | 14 43 | 0 49 | 20 26 |
| 28 | 16 | 18 | 0 1 | 22 33 | 1 16 | 14 36 | 0 49 | 20 31 |
| 31 | 16 | 18 | 0 1 | 22 34 | 1 16 | 14 29 | 0 49 | 20 36 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | W | 18 43 7 | 10 48 38 | 23 S 1 | 16 25 | 0 N 57 | 23 N 43 | 13 18 |
| 2 | Th | 18 47 4 | 11 49 48 | 22 56 | 29 18 | 2 42 | 25 32 | 13 21 |
| 3 | F | 18 51 0 | 12 50 58 | 22 51 | 12 28 | 3 6 | 25 58 | 13 25 |
| 4 | S | 18 54 57 | 13 52 7 | 22 44 | 25 57 | 3 58 | 24 53 | 13 28 |
| 5 | S | 18 58 54 | 14 53 17 | 22 38 | 9 41 | 4 39 | 22 19 | 13 32 |
| 6 | M | 19 2 50 | 15 54 26 | 22 31 | 23 37 | 5 3 | 18 25 | 13 35 |
| 7 | Tu | 19 6 47 | 16 55 36 | 22 23 | 7 41 | 5 9 | 13 28 | 13 38 |
| 8 | W | 19 10 43 | 17 56 45 | 22 16 | 21 50 | 4 57 | 7 47 | 13 42 |
| 9 | Th | 19 14 40 | 18 57 54 | 22 7 | 6 0 | 4 26 | 1 42 | 13 45 |
| 10 | F | 19 18 36 | 19 59 4 | 21 59 | 20 9 | 3 40 | 4 S 29 | 13 48 |
| 11 | S | 19 22 33 | 21 0 13 | 21 49 | 4 16 | 2 40 | 10 27 | 13 51 |
| 12 | S | 19 26 29 | 22 1 22 | 21 40 | 18 18 | 1 31 | 15 51 | 13 54 |
| 13 | M | 19 30 26 | 23 2 31 | 21 30 | 2 16 | 0 17 | 20 22 | 13 57 |
| 14 | Tu | 19 34 23 | 24 3 40 | 21 19 | 16 8 | 0 S 58 | 23 42 | 14 0 |
| 15 | W | 19 38 19 | 25 4 49 | 21 8 | 29 52 | 2 8 | 25 36 | 14 3 |
| 16 | Th | 19 42 16 | 26 5 56 | 20 57 | 13 26 | 3 10 | 25 56 | 14 6 |
| 17 | F | 19 46 12 | 27 7 4 | 20 45 | 26 48 | 4 1 | 24 45 | 14 9 |
| 18 | S | 19 50 9 | 28 8 11 | 20 33 | 9 55 | 4 37 | 22 14 | 14 12 |
| 19 | S | 19 54 5 | 29 9 17 | 20 21 | 22 46 | 4 59 | 18 38 | 14 15 |
| 20 | M | 19 58 2 | 0 10 22 | 20 8 | 5 21 | 5 5 | 14 17 | 14 18 |
| 21 | Tu | 20 1 58 | 1 11 26 | 19 55 | 17 41 | 4 57 | 9 26 | 14 20 |
| 22 | W | 20 5 55 | 2 12 29 | 19 41 | 29 47 | 4 36 | 4 18 | 14 23 |
| 23 | Th | 20 9 52 | 3 13 31 | 19 27 | 11 43 | 4 3 | 0 N 54 | 14 25 |
| 24 | F | 20 13 48 | 4 14 32 | 19 13 | 23 34 | 3 19 | 6 4 | 14 27 |
| 25 | S | 20 17 45 | 5 15 31 | 18 58 | 5 23 | 2 28 | 11 1 | 14 30 |
| 26 | S | 20 21 41 | 6 16 30 | 18 43 | 17 17 | 1 29 | 15 35 | 14 32 |
| 27 | M | 20 25 38 | 7 17 27 | 18 28 | 29 21 | 0 26 | 19 37 | 14 35 |
| 28 | Tu | 20 29 34 | 8 18 22 | 18 12 | 11 40 | 0 N 40 | 22 52 | 14 37 |
| 29 | W | 20 33 31 | 9 19 17 | 17 56 | 24 18 | 1 45 | 25 5 | 14 39 |
| 30 | Th | 20 37 27 | 10 20 10 | 17 40 | 7 20 | 2 47 | 26 2 | 14 42 |
| 31 | F | 20 41 24 | 11 21 1 | 17 24 | 20 46 | 3 41 | 25 30 | 14 45 |

JANUARY XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's Node. |
|--------|---------|--------|---------|----------|---------|--------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 0 8 10 | 22 S 87 | 1 8 49 | 17 S 6 | 2 8 6 | 24 S 26 | 4 □ 25 |
| 0 12 | 22 54 | 1 43 | 15 52 | 2 8 | 23 44 | 4 15 |
| 0 14 | 23 9 | 1 40 | 14 35 | 2 6 | 22 48 | 4 6 |
| 0 16 | 23 21 | 1 34 | 13 14 | 1 59 | 21 38 | 3 56 |
| 0 19 | 23 33 | 1 28 | 11 52 | 1 46 | 20 15 | 3 47 |
| 0 21 | 23 41 | 1 20 | 10 26 | 1 28 | 18 39 | 3 37 |
| 0 23 | 23 48 | 1 13 | 8 59 | 1 1 | 16 55 | 3 27 |
| 0 25 | 23 53 | 1 3 | 7 29 | 0 27 | 15 8 | 3 18 |
| 0 28 | 23 56 | 0 55 | 6 57 | 0 N 15 | 13 24 | 3 8 |
| 0 30 | 23 56 | 0 44 | 4 24 | 1 3 | 11 56 | 2 59 |
| 0 32 | 23 52 | 0 33 | 2 52 | 1 56 | 10 54 | 2 49 |

| h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual Aspects. | Lunar Aspects. | | | | | |
|-------|-------|-------|-------|-------|-------|-----------------|----------------|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 26 | 1 12 | 18 32 | 16 18 | 17 16 | ♂ ♂ ♀ | ♂ ♂ ♀ | ♂ | Δ | | | ♂ | Δ |
| 1 32 | 1 24 | 14 15 | 19 31 | 18 55 | | | ♂ | | | | | |
| 1 38 | 1 35 | 14 58 | 20 43 | 20 84 | | | ♂ | | | | | |
| 1 44 | 1 47 | 15 41 | 21 56 | 22 14 | ♀ ♂ ♀ | ♀ ♂ ♀ | | | Δ | | | ♂ |
| 1 50 | 1 58 | 16 24 | 23 8 | 23 53 | | | Δ | | | | | |
| 1 56 | 2 10 | 17 7 | 24 21 | 25 32 | | | | | ♂ | | Δ | ♂ |
| 2 3 | 2 21 | 17 51 | 25 33 | 27 12 | | | | ♂ | | ♂ | | |
| 2 9 | 2 32 | 18 34 | 26 46 | 28 58 | | | Δ | | | | ♂ | |
| 2 16 | 2 43 | 19 17 | 27 58 | 0 32 | | | | | | * | | Δ |
| 2 22 | 2 54 | 20 1 | 29 10 | 2 11 | ♂ * ♀ | ♂ * ♀ | ♂ | * | Δ | | * | |
| 2 29 | 3 5 | 20 44 | 0 22 | 3 50 | | | | | | | | Δ |
| 2 35 | 3 16 | 21 27 | 1 34 | 5 29 | | | * | | ♂ | | | ♂ |
| 2 42 | 3 27 | 22 11 | 2 46 | 7 7 | ♀ □ ♀ | ♀ □ ♀ | | | ♂ | | ♂ | * |
| 2 48 | 3 38 | 22 54 | 3 58 | 8 4 | ♂ * ♀ | ♂ * ♀ | ♂ | * | | | ♂ | * |
| 2 55 | 3 48 | 23 38 | 5 10 | 10 19 | | | | | | | ♂ | * |
| 3 1 | 3 59 | 24 21 | 6 21 | 11 53 | | | | | | | | |
| 3 8 | 4 9 | 25 5 | 7 33 | 13 25 | ♂ * ♀ | ♂ * ♀ | ♂ | * | | | | ♂ |
| 3 15 | 4 20 | 25 49 | 8 45 | 14 55 | | | | * | | * | | |
| 3 22 | 4 30 | 26 33 | 9 56 | 16 24 | | | | | ♂ | | * | |
| 3 29 | 4 40 | 27 16 | 11 8 | 17 49 | | | | | | ♂ | | |
| 3 36 | 4 50 | 28 0 | 12 19 | 19 10 | | | | ♂ | | | | ♂ |
| 3 43 | 5 0 | 28 44 | 13 30 | 20 26 | | | * | | | Δ | ♂ | |
| 3 50 | 5 10 | 29 27 | 14 41 | 21 37 | ♀ □ ♀ | ♀ □ ♀ | | Δ | | | | * |
| 3 57 | 5 20 | 0 11 | 15 52 | 22 42 | | | | | | | | * |
| 4 4 | 5 29 | 0 55 | 17 3 | 23 41 | ☉ * ♀ | ☉ * ♀ | ☉ | | | | Δ | |
| 4 11 | 5 39 | 1 39 | 18 14 | 24 33 | ♂ ♂ ♀ | ♂ ♂ ♀ | | | | | | * |
| 4 18 | 5 48 | 2 23 | 19 24 | 25 16 | | | | | ♂ | | | ♂ |
| 4 25 | 5 58 | 3 7 | 20 34 | 25 49 | | | Δ | ♂ | | ♂ | | |
| 4 32 | 6 7 | 3 51 | 21 44 | 26 18 | | | | | Δ | | ♂ | Δ |
| 4 39 | 6 16 | 4 35 | 22 54 | 26 27 | | | | | | | ♂ | |
| 4 46 | 6 25 | 5 19 | 24 4 | 26 30 | | | | | | | ♂ | Δ |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 N 0 | 22 S 35 | 1 S 16 | 14 S 26 | 0 N 50 | 20 S 37 |
| 4 | 16 | 15 | 0 0 | 22 36 | 1 16 | 14 19 | 0 50 | 20 41 |
| 7 | 16 | 14 | 0 0 | 22 37 | 1 17 | 14 12 | 0 50 | 20 45 |
| 10 | 16 | 14 | 0 0 | 22 38 | 1 17 | 14 5 | 0 50 | 20 49 |
| 18 | 16 | 13 | 0 0 | 22 38 | 1 17 | 13 58 | 0 50 | 20 52 |
| 16 | 16 | 12 | 0 0 | 22 39 | 1 17 | 13 51 | 0 50 | 20 55 |
| 19 | 16 | 11 | 0 0 | 22 39 | 1 17 | 13 43 | 0 51 | 20 58 |
| 22 | 16 | 11 | 0 0 | 22 40 | 1 17 | 13 36 | 0 51 | 21 0 |
| 25 | 16 | 10 | 0 0 | 22 40 | 1 18 | 13 28 | 0 51 | 21 2 |
| 28 | 16 | 10 | 0 0 | 22 40 | 1 18 | 13 21 | 0 51 | 21 4 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|-----------------------|-------------|-------------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 20 45 21 | 12 ^m 21 51 | 17 S 7 | 4 23 35 | 4 N 24 | 23 N 24 | 14 48 |
| 2 | S | 20 49 17 | 13 22 41 | 16 49 | 18 45 | 4 52 | 19 50 | 14 50 |
| 3 | M | 20 53 14 | 14 23 29 | 16 32 | 3 ^m 10 | 5 21 | 5 2 | 14 53 |
| 4 | Tu | 20 57 10 | 15 24 16 | 16 14 | 17 43 | 4 52 | 9 20 | 14 55 |
| 5 | W | 21 1 7 | 16 25 1 | 15 56 | 2 ^m 18 | 4 24 | 3 7 | 14 58 |
| 6 | Th | 21 5 3 | 17 25 46 | 15 38 | 16 47 | 3 39 | 3 S 14 | 15 0 |
| 7 | F | 21 9 0 | 18 26 30 | 15 19 | 1 ^m 7 | 2 40 | 9 22 | 15 2 |
| 8 | S | 21 12 56 | 19 27 12 | 15 0 | 15 15 | 1 32 | 14 58 | 15 4 |
| 9 | S | 21 16 53 | 20 27 54 | 14 41 | 29 11 | 0 20 | 19 40 | 15 6 |
| 10 | M | 21 20 50 | 21 28 34 | 14 22 | 12 45 | 0 S 53 | 23 14 | 15 8 |
| 11 | Tu | 21 24 46 | 22 29 14 | 14 2 | 26 24 | 2 12 | 25 26 | 15 10 |
| 12 | W | 21 28 43 | 23 29 52 | 13 42 | 9 ^m 44 | 3 12 | 26 7 | 15 12 |
| 13 | Th | 21 32 39 | 24 30 29 | 13 22 | 22 53 | 3 51 | 25 19 | 15 14 |
| 14 | F | 21 36 36 | 25 31 5 | 13 2 | 5 ^m 51 | 4 28 | 23 10 | 15 16 |
| 15 | S | 21 40 32 | 26 31 39 | 12 41 | 18 38 | 4 51 | 19 52 | 15 18 |
| 16 | S | 21 44 29 | 27 32 11 | 12 20 | 1 ^m 14 | 5 0 | 15 43 | 15 20 |
| 17 | M | 21 48 25 | 28 32 42 | 12 0 | 13 38 | 4 53 | 10 57 | 15 21 |
| 18 | Tu | 21 52 22 | 29 33 11 | 11 38 | 25 50 | 4 34 | 5 51 | 15 23 |
| 19 | W | 21 56 19 | 0 ^m 33 39 | 11 17 | 7 ^m 51 | 4 2 | 0 35 | 15 25 |
| 20 | Th | 22 0 15 | 1 34 5 | 10 56 | 19 45 | 3 20 | 4 N 39 | 15 26 |
| 21 | F | 22 4 12 | 2 34 28 | 10 34 | 1 ^m 33 | 2 30 | 9 41 | 15 27 |
| 22 | S | 22 8 8 | 3 34 50 | 10 12 | 13 21 | 1 33 | 14 23 | 15 28 |
| 23 | S | 22 12 5 | 4 35 10 | 9 58 | 25 13 | 0 31 | 18 35 | 15 30 |
| 24 | M | 22 16 1 | 5 35 27 | 9 28 | 7 ^m 14 | 0 N 32 | 22 4 | 15 31 |
| 25 | Tu | 22 19 58 | 6 35 43 | 9 6 | 19 30 | 1 36 | 24 38 | 15 33 |
| 26 | W | 22 23 54 | 7 35 56 | 8 44 | 2 ^m 6 | 2 36 | 26 3 | 15 34 |
| 27 | Th | 22 27 51 | 8 36 8 | 8 21 | 15 7 | 3 30 | 26 5 | 15 35 |
| 28 | F | 22 31 48 | 9 36 17 | 7 59 | 28 36 | 4 15 | 24 37 | 15 36 |

FEBRUARY XXVIII DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Nodes. |
|-------|---------|--------|---------|----------|---------|------------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 0 32 | 23 46 | 0 29 | 23 41 | 2 N 13 | 10 34 | 2 II 46 |
| 0 34 | 23 46 | 0 17 | 0 48 | 2 58 | 10 27 | 2 36 |
| 0 36 | 23 39 | 0 6 | 0 N 47 | 3 30 | 10 52 | 2 27 |
| 0 38 | 23 29 | 0 N 8 | 2 20 | 3 43 | 11 45 | 2 17 |
| 0 41 | 23 18 | 0 22 | 3 54 | 3 35 | 12 52 | 2 8 |
| 0 43 | 23 8 | 0 37 | 6 26 | 3 10 | 13 57 | 1 58 |
| 0 45 | 22 48 | 0 52 | 6 58 | 3 35 | 14 58 | 1 49 |
| 0 47 | 22 30 | 1 8 | 8 27 | 1 57 | 15 34 | 1 39 |
| 0 50 | 22 10 | 1 23 | 9 56 | 1 17 | 16 0 | 1 30 |
| 0 52 | 21 45 | 1 38 | 11 21 | 0 39 | 16 11 | 1 20 |

| h | N | S | Q | Q | Mutual | Lunar Aspects. | | | | | |
|--------|--------|-------|-------|-------|--------|----------------|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 24m 53 | 6 7 34 | 6 7 4 | 25 14 | 26 20 | | | | | | | |
| 25 0 | 6 43 | 6 48 | 26 24 | 26 30 | | ♈ | ♈ | ♈ | | | ♈ |
| 25 7 | 6 51 | 7 32 | 27 33 | 26 30 | ♈ ☉ ♈ | | | ♈ | ♈ | | |
| 25 14 | 6 59 | 8 16 | 28 42 | 24 50 | ☉ * ♈ | | ♈ | | | | |
| 25 21 | 7 8 | 9 0 | 29 51 | 24 1 | | | | | * | ♈ | |
| 25 28 | 7 16 | 9 44 | 1 0 | 23 4 | | ♈ | * | | | | ♈ |
| 25 36 | 7 24 | 10 29 | 2 9 | 21 59 | | | | ♈ | | | |
| 25 43 | 7 32 | 11 18 | 3 18 | 20 52 | | ♈ | | | | * | ♈ |
| 25 50 | 7 30 | 11 58 | 4 26 | 19 43 | ☉ ☉ ♈ | | ♈ | | | ♈ | * |
| 25 58 | 7 47 | 12 42 | 5 34 | 18 31 | | ♈ | | ♈ | | | * |
| 26 5 | 7 54 | 13 27 | 6 42 | 17 22 | | * | | * | | | |
| 26 12 | 8 2 | 14 11 | 7 50 | 16 17 | ♀ ♈ ♈ | | | | | ♈ | ♈ |
| 26 20 | 8 9 | 14 56 | 8 58 | 15 15 | ♀ * ♈ | | | | | | |
| 26 27 | 8 16 | 15 40 | 10 6 | 14 19 | | | | * | | * | |
| 26 34 | 8 23 | 16 25 | 11 13 | 13 30 | ☉ ☉ ♈ | | * | | | | ♈ |
| 26 41 | 8 29 | 17 9 | 12 20 | 12 43 | | ♈ | | ♈ | | | |
| 26 48 | 8 36 | 17 54 | 13 27 | 12 18 | | | ♈ | | ♈ | | |
| 26 55 | 8 43 | 18 38 | 14 34 | 11 46 | | | | | | | |
| 27 3 | 8 49 | 19 23 | 15 40 | 11 26 | | | | ♈ | | | * |
| 27 10 | 8 55 | 20 7 | 16 46 | 11 14 | | | ♈ | | | ♈ | |
| 27 17 | 9 1 | 20 52 | 17 51 | 11 9 | | * | | * | | | |
| 27 25 | 9 7 | 21 37 | 18 57 | 11 11 | | | | | | | ♈ |
| 27 32 | 9 13 | 22 23 | 20 2 | 11 19 | | | | ♈ | | ♈ | |
| 27 39 | 9 19 | 23 7 | 21 8 | 11 33 | | ♈ | | ♈ | | | ♈ |
| 27 47 | 9 25 | 23 52 | 22 13 | 11 53 | | | ♈ | | | | |
| 27 54 | 9 30 | 24 37 | 23 18 | 12 18 | | ♈ | | ♈ | | | |
| 28 1 | 9 35 | 25 22 | 24 22 | 12 48 | | | | | | | |
| 28 8 | 9 40 | 26 7 | 25 27 | 13 23 | ☉ ☉ ♈ | | | | | ♈ | ♈ |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 10 | 0 N 0 | 22 S 41 | 1 S 18 | 13 S 19 | 0 N 51 | 21 S 6 |
| 4 | 16 | 9 | 0 0 | 22 41 | 1 18 | 13 12 | 0 51 | 21 8 |
| 7 | 16 | 8 | 0 0 | 22 41 | 1 19 | 13 6 | 0 52 | 21 9 |
| 10 | 16 | 8 | 0 0 | 22 42 | 1 19 | 13 58 | 0 52 | 21 10 |
| 13 | 16 | 7 | 0 0 | 22 42 | 1 19 | 13 50 | 0 52 | 21 11 |
| 16 | 16 | 6 | 0 0 | 22 42 | 1 19 | 12 43 | 0 52 | 21 12 |
| 19 | 16 | 5 | 0 0 | 22 42 | 1 20 | 12 37 | 0 52 | 21 12 |
| 22 | 16 | 4 | 0 0 | 22 42 | 1 20 | 12 31 | 0 52 | 21 13 |
| 25 | 16 | 3 | 0 0 | 22 42 | 1 21 | 12 24 | 0 53 | 21 13 |
| 28 | 16 | 3 | 0 0 | 22 42 | 1 21 | 12 17 | 0 53 | 21 14 |
| 31 | 16 | 2 | 0 0 | 22 42 | 1 21 | 12 10 | 0 53 | 21 14 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 22 35 44 | 10 36 24 | 7 S 36 | 12 Ω 34 | 4 N 46 | 21 N 37 | 15 f 37 |
| 4 | S | 22 39 41 | 11 36 29 | 7 13 26 | 57 | 5 0 17 | 14 | 15 38 |
| 8 | M | 22 43 37 | 12 36 32 | 6 50 11 | 42 | 4 55 11 | 44 | 15 39 |
| 4 | Tu | 22 47 34 | 13 36 33 | 6 27 26 | 39 | 4 30 5 | 28 | 15 40 |
| 6 | W | 22 51 30 | 14 36 33 | 6 4 11 | 39 | 3 46 18 | 9 | 15 41 |
| 6 | Th | 22 55 27 | 15 36 31 | 5 41 26 | 33 | 2 47 7 | 39 | 15 42 |
| 7 | F | 22 59 23 | 16 36 26 | 5 18 11 | 13 | 1 37 13 | 40 | 15 42 |
| 8 | S | 23 3 20 | 17 36 21 | 4 54 25 | 36 | 0 23 18 | 49 | 15 43 |
| 9 | S | 23 7 17 | 18 36 13 | 4 31 9 | 38 | 0 8 52 | 23 | 46 |
| 10 | M | 23 11 13 | 19 36 4 | 4 7 23 | 20 | 3 1 25 | 19 | 15 44 |

| | | | | | | | | |
|----|----|---------|----------|---------|-------|---------|----|-------|
| 26 | W | 0 14 18 | 5 29 27 | 2 11 10 | 25 20 | 3 26 26 | 29 | 15 45 |
| 27 | Th | 0 18 14 | 6 28 43 | 2 34 23 | 16 | 4 12 25 | 36 | 15 45 |
| 28 | F | 0 22 11 | 7 27 57 | 3 58 6 | 40 | 4 46 23 | 14 | 15 46 |
| 29 | S | 0 26 8 | 8 27 9 | 3 21 20 | 33 | 5 5 19 | 23 | 15 44 |
| 30 | S | 0 30 4 | 9 26 19 | 3 45 4 | 55 | 5 5 14 | 27 | 15 44 |
| 31 | M | 0 34 1 | 10 25 26 | 4 8 19 | 48 | 4 46 8 | 28 | 15 43 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 S 52 | 21 S 40 | 1 N 44 | 11 N 51 | 0 N 28 | 16 S 12 | 1 ♀ 17 |
| 4 | 0 55 | 21 14 | 2 0 | 13 13 | 0 S 6 | 16 3 | 1 7 |
| 7 | 0 57 | 20 48 | 2 16 | 14 34 | 0 37 | 15 40 | 0 58 |
| 10 | 0 59 | 20 18 | 2 32 | 15 50 | 1 4 | 15 4 | 0 48 |
| 13 | 1 1 | 19 48 | 2 49 | 17 6 | 1 27 | 14 14 | 0 39 |
| 16 | 1 3 | 19 15 | 3 5 | 18 16 | 1 46 | 13 12 | 0 29 |
| 19 | 1 5 | 18 42 | 3 21 | 19 24 | 2 1 | 11 58 | 0 20 |
| 22 | 1 7 | 18 4 | 3 37 | 20 28 | 2 12 | 10 32 | 0 10 |
| 25 | 1 10 | 17 28 | 3 52 | 21 27 | 2 19 | 8 55 | 0 1 |
| 28 | 1 13 | 16 46 | 4 7 | 22 23 | 2 22 | 7 6 | 29 51 |
| 31 | 1 14 | 16 6 | 4 22 | 23 14 | 2 21 | 5 8 | 29 42 |

| D
M | ♄ | ♃ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♃ | ♂ | ♀ | ♂ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 28 15 | 9 45 | 26 52 | 26 31 | 14 3 | | | Δ | | Δ | | | ♂ |
| 2 | 28 22 | 9 50 | 27 37 | 27 34 | 14 44 | ♀ ☐ ♂ | ♂ | ☐ | ♂ | | | Δ | |
| 3 | 28 29 | 9 54 | 28 22 | 28 36 | 15 31 | ♂ * ☿ | ♂ | ☐ | | ☐ | | | |
| 4 | 28 37 | 9 58 | 29 7 | 29 39 | 16 23 | ♀ * ♄ | | | | | Δ | | |
| 5 | 28 44 | 10 2 | 29 52 | 0 41 | 17 18 | | * | | * | | | | Δ |
| 6 | 28 51 | 10 4 | 0 37 | 1 43 | 18 15 | ☉ ☐ ☿ | | | Δ | | ☐ | ♂ | |
| 7 | 28 58 | 10 10 | 1 22 | 2 45 | 19 13 | | Δ | | | | | | |
| 8 | 29 5 | 10 14 | 2 7 | 3 46 | 20 14 | | | ☐ | | ♂ | | | ☐ |
| 9 | 29 12 | 10 17 | 2 52 | 4 48 | 21 18 | | ☐ | ♂ | | ♂ | * | | |
| 10 | 29 19 | 10 20 | 3 37 | 5 49 | 22 26 | | ☐ | | * | | | | * |
| 11 | 29 26 | 10 23 | 4 22 | 6 49 | 23 36 | | | | | | | Δ | |
| 12 | 29 33 | 10 26 | 5 7 | 7 48 | 24 47 | | * | | | | | | |
| 13 | 29 40 | 10 29 | 5 52 | 8 46 | 25 59 | | | | | | ♂ | | |
| 14 | 29 47 | 10 32 | 6 37 | 9 44 | 27 14 | | | * | | * | | ☐ | |
| 15 | 29 54 | 10 34 | 7 22 | 10 42 | 28 31 | | | | ♂ | | | | ♂ |
| 16 | 0 1 | 10 36 | 8 8 | 11 40 | 29 49 | ♀ ♂ ♄ | | ☐ | | ☐ | * | | |
| 17 | 0 7 | 10 38 | 8 53 | 12 37 | 1 1 | | ♂ | | | | | | |
| 18 | 0 14 | 10 40 | 9 38 | 13 34 | 2 31 | | | | | | * | | |
| 19 | 0 20 | 10 42 | 10 24 | 14 30 | 3 55 | | | Δ | | Δ | | | |
| 20 | 0 27 | 10 43 | 11 9 | 15 26 | 5 20 | | | | * | | | | |
| 21 | 0 34 | 10 44 | 11 54 | 16 21 | 6 46 | | | | | | | ☐ | |
| 22 | 0 40 | 10 45 | 12 40 | 17 15 | 8 14 | | | | | | | ♂ | * |
| 23 | 0 47 | 10 46 | 13 25 | 18 9 | 9 44 | | * | | ☐ | | | | |
| 24 | 0 54 | 10 47 | 14 10 | 19 2 | 11 15 | ♀ ☐ ♄ | | ♂ | | ♂ | Δ | | ☐ |
| 25 | 1 0 | 10 48 | 14 56 | 19 54 | 12 47 | | | | Δ | | | | |
| 26 | 1 7 | 10 48 | 15 41 | 20 45 | 14 21 | ♂ * ☿ | ☐ | | | | | | Δ |
| 27 | 1 13 | 10 48 | 16 27 | 21 36 | 15 56 | ♀ ☐ ☿ | | | | | | * | |
| 28 | 1 19 | 10 48 | 17 12 | 22 26 | 17 33 | | Δ | | ♂ | Δ | | | |
| 29 | 1 26 | 10 48 | 17 58 | 23 16 | 19 12 | | | Δ | | | ♂ | ☐ | |
| 30 | 1 32 | 10 48 | 18 43 | 24 5 | 20 51 | | | | | ☐ | | | |
| 31 | 1 38 | 10 47 | 19 29 | 24 53 | 22 31 | ☉ Δ ♄ | | ☐ | | | | Δ | ♂ |

APRIL XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|----------|---------|---------|----------|----------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 1 | 0 N 0 | 22 54 28 | 1 53 22 | 12 53 8 | 0 N 53 | 21 51 14 |
| 4 | 16 | 0 | 0 0 | 22 42 | 1 22 | 12 3 | 0 53 | 21 13 |
| 7 | 15 | 59 | 0 0 | 22 42 | 1 23 | 11 56 | 0 54 | 21 11 |
| 10 | 15 | 58 | 0 0 | 22 41 | 1 23 | 11 50 | 0 54 | 21 9 |
| 13 | 15 | 58 | 0 0 | 22 41 | 1 23 | 11 44 | 0 54 | 21 8 |
| 16 | 15 | 57 | 0 0 | 22 41 | 1 23 | 11 39 | 0 54 | 21 6 |
| 19 | 15 | 56 | 0 0 | 22 41 | 1 24 | 11 34 | 0 54 | 21 6 |
| 22 | 15 | 56 | 0 0 | 22 40 | 1 25 | 11 29 | 0 54 | 21 3 |
| 25 | 15 | 55 | 0 0 | 22 40 | 1 26 | 11 26 | 0 54 | 21 1 |
| 28 | 15 | 54 | 0 0 | 22 39 | 1 26 | 11 20 | 0 54 | 20 59 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 0 37 57 | 11 24 30 | 4 N 31 | 4 48 | 4 N 7 | 1 N 52 | 15 43 |
| 2 | W | 0 41 54 | 12 23 38 | 4 54 | 20 3 | 3 9 | 4 S 55 | 15 42 |
| 3 | Th | 0 45 50 | 13 22 34 | 5 17 | 5 13 | 1 59 | 11 26 | 15 42 |
| 4 | F | 0 49 47 | 14 21 33 | 5 40 | 20 13 | 0 40 | 17 10 | 15 41 |
| 5 | S | 0 53 43 | 15 20 30 | 6 3 | 4 54 | 0 39 | 21 46 | 15 40 |
| 6 | | 10 16 | 19 26 | 6 26 | 19 11 | 1 54 | 24 55 | 15 39 |
| 7 | | 17 17 | 18 19 | 6 42 | 3 37 | 3 0 | 26 26 | 15 39 |
| 8 | | 13 18 | 17 11 | 7 11 | 16 31 | 3 54 | 26 19 | 15 38 |
| 9 | | 10 19 | 16 2 | 7 33 | 29 37 | 4 35 | 24 43 | 15 37 |
| 10 | | 16 20 | 14 51 | 7 55 | 17 34 | 5 0 | 21 54 | 15 36 |
| 11 | F | 1 17 28 | 21 18 38 | | | 1 18 | 6 | 15 35 |
| 12 | S | 1 21 19 | 22 12 28 | | | 7 13 | 37 | 15 34 |
| 13 | S | 1 25 16 | 23 11 6 | | | 9 8 | 40 | 15 33 |
| 14 | M | 1 29 12 | 24 9 46 | | | 9 3 | 27 | 15 31 |
| 15 | Th | 1 33 9 | 25 8 25 | | | 7 1 N 52 | | 15 30 |
| 16 | W | 1 37 6 | 26 7 6 | 10 6 | 25 0 | 2 47 | 7 6 | 15 29 |
| 17 | Th | 1 41 2 | 27 5 43 | 10 21 | 6 48 | 1 49 | 12 5 | 15 28 |
| 18 | F | 1 44 59 | 28 4 17 | 10 46 | 18 36 | 0 46 | 16 32 | 15 26 |
| 19 | S | 1 48 55 | 29 2 49 | 11 9 | 0 27 | 0 N 19 | 20 34 | 15 25 |
| 20 | S | 1 52 52 | 0 3 15 | 11 29 | 12 23 | 1 23 | 23 41 | 15 23 |
| 21 | M | 1 56 46 | 0 59 47 | 11 50 | 24 28 | 2 25 | 25 46 | 15 22 |
| 22 | Tu | 2 0 45 | 1 58 13 | 12 10 | 6 45 | 3 21 | 26 39 | 15 20 |
| 23 | W | 2 4 41 | 2 56 37 | 12 30 | 19 16 | 4 9 | 26 11 | 15 18 |
| 24 | Th | 2 8 36 | 3 54 59 | 12 50 | 2 12 | 4 46 | 24 20 | 15 17 |
| 25 | | 2 12 34 | 4 53 15 | 13 11 | 15 31 | 5 9 | 21 7 | 15 16 |
| 26 | S | 2 16 30 | 5 51 36 | 13 29 | 29 14 | 5 15 | 16 40 | 15 13 |
| 27 | S | 2 20 26 | 6 49 51 | 13 49 | 13 25 | 5 3 | 11 11 | 15 12 |
| 28 | M | 2 24 22 | 7 48 4 | 14 6 | 28 2 | 4 31 | 4 52 | 15 10 |
| 29 | Tu | 2 28 18 | 8 46 16 | 14 26 | 12 58 | 3 40 | 18 46 | 15 8 |
| 30 | W | 2 32 14 | 9 44 25 | 14 45 | 28 6 | 2 38 | 3 26 | 15 6 |

| 1817.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | 9 |
|-----------------|-------|-----------------------------------|--------|---------|----------|---------|-----------------|---|--|--|--|---|
| APRIL XXX DAYS. | | | | | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | |
| 1 | 18 14 | 15 S 56 | 4 N 25 | 23 N 29 | 2 S 20 | 4 S 26 | 29 39 | | | | | |
| 4 | 1 16 | 15 13 | 4 37 | 24 11 | 2 13 | 2 14 | 29 29 | | | | | |
| 7 | 1 18 | 14 30 | 4 50 | 24 54 | 2 1 | 0 N 7 | 29 20 | | | | | |
| 10 | 1 20 | 13 45 | 4 59 | 25 30 | 1 45 | 2 37 | 29 10 | | | | | |
| 13 | 1 22 | 13 0 | 5 9 | 25 58 | 1 24 | 5 13 | 29 1 | | | | | |
| 16 | 1 24 | 12 17 | 5 15 | 26 20 | 0 59 | 7 55 | 28 51 | | | | | |
| 19 | 1 26 | 11 26 | 5 21 | 26 42 | 0 31 | 10 38 | 28 42 | | | | | |
| 22 | 1 28 | 10 33 | 5 28 | 26 50 | 0 N 0 | 13 20 | 28 32 | | | | | |
| 25 | 1 29 | 9 47 | 5 24 | 27 2 | 0 32 | 15 54 | 28 23 | | | | | |
| 28 | 1 31 | 9 0 | 5 19 | 26 59 | 1 4 | 18 15 | 28 13 | | | | | |

| D
M | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|--------|---------|---------|---------|---------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 1 × 44 | 10 f 46 | 20 m 15 | 25 r 39 | 24 × 13 | | ♈ | | | * | | | | |
| 2 | 1 50 | 10 R 45 | 21 0 | 26 25 | 25 55 | | | * | | | Δ | | | |
| 3 | 1 50 | 10 43 | 21 45 | 27 10 | 27 40 | ♈ * ♉ | | | Δ | | | | | |
| 4 | 2 2 | 10 42 | 22 31 | 27 54 | 29 28 | | | | | | □ | | ♈ | |
| 5 | 2 6 | 10 40 | 23 16 | 28 37 | 1 r 16 | ☉ Δ ☿ | | | □ | ♈ | | | ♈ | Δ |
| 6 | 2 14 | 10 39 | 24 12 | 29 19 | 3 5 | | Δ | ♈ | | * | | * | | |
| 7 | 2 20 | 10 37 | 24 47 | 0 0 | 4 56 | | | | * | | | | | □ |
| 8 | 2 26 | 10 35 | 25 32 | 0 40 | 6 49 | | □ | | | | | | | |
| 9 | 2 32 | 10 32 | 26 18 | 1 19 | 8 43 | | | | | | | | Δ | |
| 10 | 2 37 | 10 30 | 27 4 | 1 56 | 10 39 | ♈ Δ ♈ | | * | | * | | | | * |
| 11 | 2 43 | 10 27 | 27 49 | 2 32 | 12 36 | ♀ □ ♈ | * | | | | ♈ | | | |
| 12 | 2 49 | 10 24 | 28 35 | 3 7 | 14 34 | ♈ Δ ☿ | | | ♈ | | □ | | □ | |
| 13 | 2 54 | 10 21 | 29 21 | 3 41 | 16 33 | | | □ | | | | | | |
| 14 | 3 0 | 10 18 | 0 × 6 | 4 12 | 18 34 | | | | | | | | * | |
| 15 | 3 5 | 10 14 | 0 52 | 4 42 | 20 37 | | | Δ | | Δ | | | | |
| 16 | 3 10 | 10 11 | 1 37 | 5 11 | 22 41 | | ♈ | | | | | | | ♈ |
| 17 | 3 16 | 10 7 | 2 23 | 5 39 | 24 46 | | | | * | | * | | | |
| 18 | 3 21 | 10 4 | 3 8 | 6 5 | 26 52 | ♈ ☿ ♈ | | | | | | | | |
| 19 | 3 26 | 10 0 | 3 54 | 6 30 | 28 58 | ☉ ☿ ♈ | | | | □ | | □ | | |
| 20 | 3 31 | 9 56 | 4 39 | 6 53 | 1 r 5 | | | ♈ | | ♈ | | | ♈ | |
| 21 | 3 36 | 9 51 | 5 24 | 7 14 | 3 13 | ♈ * ♈ | | | | | | | | |
| 22 | 3 41 | 9 47 | 6 10 | 7 33 | 5 22 | ♈ * ♈ | * | | Δ | | Δ | | * | |
| 23 | 3 46 | 9 42 | 6 55 | 7 50 | 7 31 | | | | | | | | | |
| 24 | 3 51 | 9 37 | 7 40 | 8 4 | 9 39 | ☉ * ♈ | □ | | | | | * | | |
| 25 | 3 55 | 9 32 | 8 26 | 8 16 | 11 46 | | | Δ | | Δ | | | | □ |
| 26 | 4 0 | 9 27 | 9 11 | 8 27 | 13 53 | ♈ □ ♈ | Δ | | ♈ | | | | | |
| 27 | 4 4 | 9 22 | 9 57 | 8 36 | 15 59 | | | □ | | □ | ♈ | □ | Δ | |
| 28 | 4 9 | 9 16 | 10 42 | 8 42 | 18 4 | | | | | | | | | |
| 29 | 4 13 | 9 11 | 11 28 | 8 45 | 20 7 | | | * | | * | | Δ | | |
| 30 | 4 18 | 9 6 | 12 13 | 8 R 46 | 22 7 | | | | Δ | | | | | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 1 S 32 | 8 S 6 | 5 N 12 | 26 N 55 | 1 N 32 | 20 N 18 | 28 8 3 |
| 4 | 1 34 | 7 18 | 4 55 | 26 40 | 1 56 | 22 0 | 27 53 |
| 7 | 1 35 | 6 23 | 4 43 | 26 17 | 2 14 | 23 19 | 27 44 |
| 10 | 1 36 | 5 30 | 4 15 | 25 39 | 2 24 | 24 17 | 27 34 |
| 13 | 1 37 | 4 39 | 3 53 | 25 1 | 2 26 | 24 53 | 27 25 |
| 16 | 1 38 | 3 45 | 3 18 | 24 8 | 2 21 | 25 11 | 27 15 |
| 19 | 1 39 | 2 54 | 2 42 | 23 15 | 2 7 | 25 12 | 27 6 |
| 22 | 1 40 | 2 2 | 2 6 | 22 10 | 1 44 | 25 0 | 26 56 |
| 25 | 1 41 | 1 9 | 1 20 | 21 6 | 1 14 | 24 34 | 26 47 |
| 28 | 1 42 | 0 17 | 0 38 | 20 0 | 0 35 | 23 58 | 26 37 |
| 31 | 1 43 | 0 N 35 | 0 0 | 18 58 | 0 S 10 | 23 14 | 26 28 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ | ♁ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 4 22 | 9 0 | 12 59 | 8 44 | 24 8 | 7 | ♂ | | | | | | |
| 2 | 4 26 | 8 54 | 13 44 | 8 40 | 26 4 | ♀ ♂ ♄ | | ♂ | ☐ | ♂ | ☐ | ♂ | ♂ |
| 3 | 4 30 | 8 48 | 14 29 | 8 34 | 27 57 | | | ♂ | | ♂ | ☐ | ♂ | |
| 4 | 4 34 | 8 41 | 15 15 | 8 25 | 29 45 | ♂ ☐ ☿ | | | | | | | |
| 5 | 4 38 | 8 35 | 16 0 | 8 14 | 1 31 | | Δ | | * | | * | | |
| 6 | 4 42 | 8 29 | 16 45 | 8 1 | 3 15 | | | | | | | | |
| 7 | 4 46 | 8 22 | 17 31 | 7 46 | 4 56 | ☿ ☐ ♈ | | | | * | | Δ | Δ |
| 8 | 4 50 | 8 16 | 18 16 | 7 28 | 6 34 | ☿ ♂ ♀ | ☐ | * | | | | | |
| 9 | 4 54 | 8 9 | 19 1 | 7 8 | 8 8 | ☿ ♂ ♄ | | | ♂ | ☐ | ♂ | ☐ | ☐ |
| 10 | 4 57 | 8 2 | 19 47 | 6 46 | 9 37 | | * | ☐ | | | ♂ | | |
| 11 | 5 1 | 7 55 | 20 32 | 6 22 | 11 3 | | | | | | | | |
| 12 | 5 4 | 7 48 | 21 17 | 5 55 | 12 26 | ☉ * ♂ | | Δ | | Δ | | * | * |
| 13 | 5 7 | 7 41 | 22 2 | 5 26 | 13 45 | | | | | | | | |
| 14 | 5 10 | 7 34 | 22 47 | 4 56 | 15 0 | ☿ ♂ ☿ | | | * | | | | |
| 15 | 5 13 | 7 27 | 23 32 | 4 24 | 16 11 | ☉ ☐ ♈ | | | | | | | |
| 16 | 5 16 | 7 19 | 24 17 | 3 51 | 17 18 | | ♂ | | | | | * | |
| 17 | 5 19 | 7 12 | 25 2 | 3 16 | 18 21 | | | ♂ | ☐ | ♂ | | ♂ | ♂ |
| 18 | 5 22 | 7 5 | 25 47 | 2 40 | 19 20 | | | | | | ☐ | | |
| 19 | 5 24 | 6 57 | 26 32 | 2 2 | 20 14 | | | | | | | | |
| 20 | 5 27 | 6 50 | 27 17 | 1 23 | 21 4 | | | | Δ | | | | |
| 21 | 5 29 | 6 42 | 28 2 | 0 44 | 21 50 | ☉ ♂ ♀ | * | | | | | Δ | * |
| 22 | 5 32 | 6 35 | 28 46 | 0 6 | 22 33 | | | Δ | | Δ | | | |
| 23 | 5 34 | 6 27 | 29 31 | 29 8 | 23 11 | | ☐ | | | | | ☐ | * |
| 24 | 5 37 | 6 20 | 0 16 | 28 53 | 23 44 | | | ☐ | ♂ | ☐ | | | |
| 25 | 5 39 | 6 12 | 1 0 | 28 18 | 24 12 | | | | | | | Δ | ☐ |
| 26 | 5 41 | 6 5 | 1 45 | 27 43 | 24 36 | | | Δ | * | | * | ♂ | |
| 27 | 5 43 | 5 57 | 2 30 | 27 9 | 24 55 | ☉ ☐ ♈ | | | | | | | Δ |
| 28 | 5 45 | 5 50 | 3 15 | 26 30 | 25 9 | ☉ ♂ ♄ | | | | Δ | | | |
| 29 | 5 47 | 5 42 | 3 59 | 26 4 | 25 19 | ♄ ☐ ♈ | | | | | | ♂ | |
| 30 | 5 49 | 5 34 | 4 44 | 25 33 | 25 24 | | ♂ | | ☐ | ♂ | Δ | | |
| 31 | 5 51 | 5 26 | 5 29 | 25 4 | 25 25 | ♂ Δ ♄ | | ♂ | | | | | ♂ |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| 1 | 15 | 48 | 0 3 1 | 22 3 29 | 1 3 33 | 10 3 49 | 0 N 52 | 20 3 31 |
| 4 | 15 | 48 | 0 1 | 22 28 | 1 34 | 10 48 | 0 52 | 20 17 |
| 7 | 15 | 47 | 0 1 | 22 27 | 1 35 | 10 48 | 0 51 | 20 14 |
| 10 | 15 | 47 | 0 1 | 22 26 | 1 35 | 10 48 | 0 51 | 20 11 |
| 13 | 15 | 46 | 0 1 | 22 26 | 1 36 | 10 48 | 0 50 | 20 7 |
| 16 | 15 | 46 | 0 1 | 22 25 | 1 36 | 10 48 | 0 50 | 20 4 |
| 19 | 15 | 46 | 0 1 | 22 25 | 1 37 | 10 49 | 0 49 | 20 0 |
| 22 | 15 | 46 | 0 1 | 22 24 | 1 38 | 10 50 | 0 49 | 19 57 |
| 25 | 15 | 46 | 0 1 | 22 24 | 1 39 | 10 51 | 0 48 | 19 55 |
| 28 | 15 | 45 | 0 1 | 22 23 | 1 39 | 10 53 | 0 48 | 19 53 |

| D
M | D
W | Sideron'
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 4 38 24 | 10 33 5 | 22 N 3 | 6 W 2 | 33 20 | 26 S 39 | 13 1 55 |
| 2 | M | 4 42 20 | 11 30 30 | 22 11 30 | 12 4 14 | 26 7 | | 13 3 53 |
| 3 | Tu | 4 46 17 | 12 27 54 | 22 19 34 | 57 4 51 | 24 0 | | 13 51 |
| 4 | W | 4 50 13 | 13 25 18 | 22 26 17 | 15 5 12 | 20 38 | | 13 49 |
| 5 | Th | 4 54 10 | 14 22 41 | 22 33 0 | 9 5 16 | 16 22 | | 13 47 |
| 6 | F | 4 58 6 | 15 20 4 | 22 39 12 | 40 5 4 | 11 30 | | 13 44 |
| 7 | S | 5 2 3 | 16 17 26 | 22 45 24 | 54 4 39 | 6 18 | | 13 43 |
| 8 | S | 5 5 59 | 17 14 47 | 22 51 6 | 51 4 2 | 0 58 | | 13 39 |
| 9 | M | 5 9 56 | 18 12 8 | 22 56 16 | 47 3 15 | 4 N 21 | | 13 36 |
| 10 | Tu | 5 13 53 | 19 9 29 | 22 1 0 | 35 3 20 | 9 30 | | 13 33 |
| 11 | W | 5 17 49 | 20 6 50 | 22 6 12 | 23 1 19 | 14 19 | | 13 30 |
| 12 | Th | 5 21 46 | 21 4 9 | 22 10 24 | 15 0 15 | 18 37 | | 13 28 |
| 13 | Th | 5 25 42 | 22 1 29 | 22 13 6 | 14 0 N 51 | 22 12 | | 13 25 |
| 14 | S | 5 29 39 | 22 58 46 | 22 17 18 | 23 1 55 | 24 52 | | 13 23 |
| 15 | S | 5 33 35 | 23 56 6 | 22 20 0 | 43 2 55 | 26 23 | | 13 20 |
| 16 | M | 5 37 32 | 24 53 24 | 22 22 13 | 16 3 47 | 26 34 | | 13 18 |
| 17 | Tu | 5 41 29 | 25 50 41 | 22 24 26 | 1 4 29 | 25 22 | | 13 15 |
| 18 | W | 5 45 25 | 26 47 57 | 22 26 9 | 1 4 59 | 22 48 | | 13 13 |
| 19 | Th | 5 49 22 | 27 45 13 | 22 27 22 | 14 5 12 | 19 1 | | 13 10 |
| 20 | F | 5 53 18 | 28 42 29 | 22 27 5 | 42 5 9 | 14 13 | | 13 8 |
| 21 | S | 5 57 15 | 29 39 43 | 22 28 19 | 23 4 48 | 8 37 | | 13 6 |
| 22 | S | 6 1 11 | 30 36 58 | 22 28 3 | 18 4 11 | 2 31 | | 13 4 |
| 23 | M | 6 5 8 | 1 34 10 | 22 27 17 | 27 3 17 | 38 49 | | 13 2 |
| 24 | Tu | 6 9 4 | 2 31 23 | 22 26 1 | 47 3 11 | 10 3 | | 13 0 |
| 25 | W | 6 13 1 | 3 28 36 | 22 25 16 | 17 0 56 | 15 50 | | 12 57 |

| 14 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1817.] | | | | | |
|-----------------|-------------------|-----------------------------------|-----------|------------|-------------|------------|-----------|-------------|------------|---------|------|---------|------|--------|----|----|------|
| JULY XXXI DAYS. | | | | | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 15 | 45 | 0 S | 1 | 22 S | 22 | 1 S | 40 | 10 S | 55 | 0 N | 47 | 19 S | 50 | | | |
| 4 | 15 | 45 | 0 | 1 | 22 | 21 | 1 | 40 | 10 | 58 | 0 | 47 | 19 | 48 | | | |
| 7 | 15 | 45 | 0 | 1 | 22 | 20 | 1 | 41 | 11 | 0 | 0 | 46 | 19 | 46 | | | |
| 10 | 15 | 46 | 0 | 1 | 22 | 19 | 1 | 42 | 11 | 3 | 0 | 45 | 19 | 45 | | | |
| 13 | 15 | 46 | 0 | 1 | 22 | 19 | 1 | 43 | 11 | 6 | 0 | 44 | 19 | 43 | | | |
| 16 | 15 | 46 | 0 | 1 | 22 | 18 | 1 | 43 | 11 | 9 | 0 | 44 | 19 | 42 | | | |
| 19 | 15 | 46 | 0 | 1 | 22 | 18 | 1 | 44 | 11 | 13 | 0 | 43 | 19 | 42 | | | |
| 22 | 15 | 46 | 0 | 1 | 22 | 17 | 1 | 44 | 11 | 17 | 0 | 43 | 19 | 41 | | | |
| 25 | 15 | 47 | 0 | 1 | 22 | 17 | 1 | 45 | 11 | 21 | 0 | 42 | 19 | 41 | | | |
| 28 | 15 | 47 | 0 | 1 | 22 | 17 | 1 | 45 | 11 | 25 | 0 | 42 | 19 | 42 | | | |
| 31 | 15 | 47 | 0 | 1 | 22 | 17 | 1 | 45 | 11 | 30 | 0 | 41 | 19 | 43 | | | |
| D
M | D
W | Siderea ^l
Time. | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. | | | | | | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | ° | ' | | | | |
| 1 | Tu | 6 | 36 | 43 | 9 | 5 | 11 39 | 23 N | 9 | 12 | m | 5 | 5 S | 0 21 S | 59 | 12 | 44 |
| 2 | W | 6 | 40 | 40 | 10 | 8 | 50 | 23 | 5 | 25 | 24 | 5 | 9 | 17 | 55 | 12 | R 42 |
| 3 | Th | 6 | 44 | 37 | 11 | 6 | 1 | 23 | 0 | 8 | × 19 | 5 | 2 | 13 | 8 | 12 | 40 |
| 4 | F | 6 | 48 | 33 | 12 | 3 | 12 | 22 | 55 | 20 | 52 | 4 | 41 | 7 | 55 | 12 | 38 |
| 5 | S | 6 | 52 | 30 | 13 | 0 | 24 | 22 | 50 | 3 | r 7 | 4 | 7 | 2 | 32 | 12 | 36 |
| 6 | S | 6 | 56 | 27 | 13 | 57 | 36 | 22 | 44 | 15 | 8 | 3 | 22 | 2 N | 51 | 12 | 34 |
| 7 | M | 7 | 0 | 23 | 14 | 54 | 48 | 22 | 38 | 27 | 1 | 2 | 30 | 8 | 5 | 12 | 32 |
| 8 | Tu | 7 | 4 | 20 | 15 | 52 | 1 | 22 | 31 | 8 | × 49 | 1 | 31 | 13 | 1 | 12 | 30 |
| 9 | W | 7 | 8 | 16 | 16 | 49 | 15 | 22 | 24 | 20 | 39 | 0 | 28 | 17 | 28 | 12 | 28 |
| 10 | Th | 7 | 12 | 13 | 17 | 46 | 29 | 22 | 17 | 2 | □ 35 | 0 N | 36 | 21 | 17 | 12 | 26 |
| 11 | F | 7 | 16 | 9 | 18 | 43 | 43 | 22 | 9 | 14 | 41 | 1 | 39 | 24 | 14 | 12 | 24 |
| 12 | S | 7 | 20 | 6 | 19 | 40 | 58 | 22 | 1 | 27 | 1 | 2 | 39 | 26 | 5 | 12 | 22 |
| 13 | S | 7 | 24 | 2 | 20 | 38 | 14 | 21 | 53 | 9 | 5 | 3 | 32 | 26 | 39 | 12 | 20 |
| 14 | M | 7 | 27 | 59 | 21 | 35 | 30 | 21 | 44 | 22 | 27 | 4 | 16 | 25 | 48 | 12 | 18 |
| 15 | Tu | 7 | 31 | 56 | 22 | 32 | 46 | 21 | 35 | 5 | Ω 35 | 4 | 47 | 23 | 31 | 12 | 17 |
| 16 | W | 7 | 35 | 52 | 23 | 30 | 2 | 21 | 25 | 18 | 57 | 5 | 3 | 19 | 57 | 12 | 15 |
| 17 | Th | 7 | 39 | 49 | 24 | 27 | 19 | 21 | 15 | 2 | m 33 | 5 | 2 | 15 | 16 | 12 | 13 |
| 18 | F | 7 | 43 | 45 | 25 | 24 | 36 | 21 | 5 | 16 | 19 | 4 | 44 | 9 | 46 | 12 | 12 |
| 19 | S | 7 | 47 | 42 | 26 | 21 | 53 | 20 | 54 | 0 | △ 13 | 4 | 9 | 3 | 44 | 12 | 11 |
| 20 | S | 7 | 51 | 38 | 27 | 19 | 11 | 20 | 43 | 14 | 13 | 3 | 19 | 2 S | 33 | 12 | 9 |
| 21 | M | 7 | 55 | 35 | 28 | 16 | 28 | 20 | 32 | 28 | 19 | 2 | 17 | 8 | 46 | 12 | 8 |
| 22 | Tu | 7 | 59 | 31 | 29 | 13 | 46 | 20 | 20 | 12 | m 28 | 1 | 6 | 14 | 33 | 12 | 7 |
| 23 | W | 8 | 3 | 28 | 0 | Ω | 11 4 | 20 | 8 | 26 | 40 | 0 S | 10 | 19 | 35 | 12 | 6 |
| 24 | Th | 8 | 7 | 25 | 1 | 8 | 23 | 19 | 56 | 10 | † 53 | 1 | 24 | 23 | 29 | 12 | 4 |
| 25 | F | 8 | 11 | 21 | 2 | 5 | 42 | 19 | 43 | 25 | 4 | 2 | 33 | 25 | 56 | 12 | 3 |
| 26 | S | 8 | 15 | 18 | 3 | 3 | 1 | 19 | 30 | 9 | w 10 | 3 | 33 | 26 | 41 | 12 | 2 |
| 27 | S | 8 | 19 | 14 | 4 | 0 | 21 | 19 | 16 | 23 | 8 | 4 | 18 | 25 | 44 | 12 | 1 |
| 28 | M | 8 | 23 | 11 | 4 | 57 | 42 | 19 | 3 | 6 | m 53 | 4 | 48 | 23 | 13 | 11 | 59 |
| 29 | Tu | 8 | 27 | 7 | 5 | 55 | 3 | 18 | 49 | 20 | 21 | 5 | 1 | 19 | 29 | 11 | 58 |
| 30 | W | 8 | 31 | 4 | 6 | 52 | 26 | 18 | 34 | 3 | × 31 | 4 | 58 | 14 | 51 | 11 | 57 |
| 31 | Th | 8 | 35 | 0 | 7 | 49 | 49 | 18 | 20 | 16 | 20 | 4 | 39 | 9 | 41 | 11 | 55 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 S 45 | 9 S 7 | 3 S 57 | 15 N 56 | 3 S 43 | 19 S 18 | 24 8 50 |
| 4 | 1 44 | 9 52 | 4 1 | 16 16 | 3 12 | 19 58 | 24 40 |
| 7 | 1 44 | 10 36 | 4 4 | 16 36 | 2 36 | 20 44 | 24 31 |
| 10 | 1 43 | 11 19 | 4 4 | 17 0 | 1 57 | 21 29 | 24 21 |
| 13 | 1 42 | 12 0 | 4 3 | 17 25 | 1 17 | 22 10 | 24 12 |
| 16 | 1 42 | 12 40 | 4 0 | 17 58 | 0 37 | 22 42 | 24 2 |
| 19 | 1 41 | 13 20 | 3 56 | 18 16 | 0 N 1 | 22 58 | 23 53 |
| 22 | 1 40 | 14 0 | 3 50 | 18 42 | 0 35 | 22 54 | 23 43 |
| 25 | 1 38 | 14 35 | 3 43 | 19 5 | 1 3 | 22 27 | 23 34 |
| 28 | 1 36 | 15 10 | 3 35 | 19 28 | 1 24 | 21 35 | 23 24 |
| 31 | 1 35 | 15 43 | 3 26 | 19 47 | 1 38 | 20 22 | 23 15 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|--------|---------|---------|---------|------------------|----------------|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 5 × 52 | 2 ♄ 3 | 27 ♄ 55 | 28 8 11 | 18 ♄ 56 | | | * | | | | |
| 2 | 5 R 51 | 1 R 58 | 28 37 | 28 46 | 19 31 | | | | | □ | * | □ Δ |
| 3 | 5 49 | 1 54 | 29 19 | 29 22 | 20 14 | | Δ | □ | ♈ | | | |
| 4 | 5 48 | 1 49 | 0 8 1 | 0 ♄ 0 | 21 4 | | | | | | | □ |
| 5 | 5 46 | 1 45 | 0 43 | 0 39 | 21 58 | | | | | Δ | * | |
| 6 | 5 44 | 1 41 | 1 25 | 1 19 | 22 55 | ♀ ♄ ♈ | □ | Δ | | | ♈ | |
| 7 | 5 42 | 1 37 | 2 7 | 2 0 | 23 55 | | | | | | ♈ | * |
| 8 | 5 40 | 1 34 | 2 49 | 2 42 | 25 0 | | | | * | | | |
| 9 | 5 38 | 1 30 | 3 30 | 3 25 | 26 10 | | * | | | | | |
| 10 | 5 35 | 1 27 | 4 11 | 4 9 | 27 26 | | | | □ | ♈ | | ♈ |
| 11 | 5 33 | 1 23 | 4 53 | 4 53 | 28 46 | ♀ ♄ ♈ | | ♈ | | | | |
| 12 | 5 31 | 1 20 | 5 34 | 5 38 | 0 9 | ♈ * ♈ | | | | | | ♈ |
| 13 | 5 28 | 1 17 | 6 15 | 6 24 | 1 36 | | | | Δ | | * | |
| 14 | 5 26 | 1 15 | 6 56 | 7 11 | 3 7 | | ♈ | | | | | |
| 15 | 5 23 | 1 12 | 7 37 | 7 59 | 4 42 | ♀ Δ ♈ | ♈ | | | Δ | □ | * |
| 16 | 5 21 | 1 10 | 8 18 | 8 47 | 6 22 | | | Δ | | | | |
| 17 | 5 18 | 1 7 | 8 58 | 9 36 | 8 5 | | | | ♈ | □ | Δ | * |
| 18 | 5 15 | 1 5 | 9 39 | 10 26 | 9 51 | ♀ * ♈ | | □ | | | | □ |
| 19 | 5 12 | 1 3 | 10 19 | 11 17 | 11 41 | | * | | | * | | |
| 20 | 5 9 | 1 1 | 10 59 | 12 9 | 13 34 | ♀ ♄ ♈ | | * | | | | Δ □ |
| 21 | 5 6 | 1 0 | 11 39 | 13 1 | 15 29 | | □ | | Δ | | | |
| 22 | 5 3 | 0 59 | 12 19 | 13 54 | 17 26 | | | | | | ♈ | Δ |
| 23 | 5 0 | 0 58 | 12 59 | 14 47 | 19 25 | | Δ | | ♈ | | | |
| 24 | 4 57 | 0 57 | 13 39 | 15 41 | 21 27 | ☉ Δ ♈ | | ♈ | □ | | | ♈ |
| 25 | 4 53 | 0 56 | 14 19 | 16 35 | 23 31 | | | | | | | |
| 26 | 4 50 | 0 56 | 14 58 | 17 29 | 25 35 | | | | * | | Δ | |
| 27 | 4 46 | 0 56 | 15 37 | 18 24 | 27 40 | | | | | | | ♈ |
| 28 | 4 43 | 0 D 56 | 16 16 | 19 20 | 29 46 | ♀ Δ ♈ | ♈ | | | * | | |
| 29 | 4 39 | 0 56 | 16 55 | 20 16 | 1 53 | | | * | | | □ | Δ |
| 30 | 4 35 | 0 56 | 17 34 | 21 13 | 3 59 | | | ♈ | □ | | * | |
| 31 | 4 31 | 0 56 | 18 13 | 22 10 | 6 4 | | | □ | | | * | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 S | 1 22 S | 16 1 S | 46 11 S | 32 0 N | 40 19 S |
| 4 | 15 | 47 | 0 | 1 22 | 16 1 | 46 11 | 37 0 | 40 19 |
| 7 | 15 | 48 | 0 | 1 22 | 16 1 | 47 11 | 42 0 | 39 19 |
| 10 | 15 | 48 | 0 | 1 22 | 16 1 | 47 11 | 47 0 | 38 19 |
| 13 | 15 | 49 | 0 | 1 22 | 15 1 | 48 11 | 52 0 | 37 19 |
| 16 | 15 | 49 | 0 | 1 22 | 15 1 | 48 11 | 57 0 | 37 19 |
| 19 | 15 | 50 | 0 | 1 22 | 15 1 | 48 12 | 2 0 | 36 19 |
| 22 | 15 | 50 | 0 | 1 22 | 15 1 | 48 12 | 7 0 | 36 19 |
| 25 | 15 | 51 | 0 | 1 22 | 15 1 | 49 12 | 12 0 | 35 20 |
| 28 | 15 | 51 | 0 | 1 22 | 15 1 | 49 12 | 17 0 | 35 20 |
| 31 | 15 | 52 | 0 | 1 22 | 15 1 | 49 12 | 22 0 | 34 20 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 8 38 57 | 8 24 47 | 13 18 N | 5 28 x 51 | 4 S 8 | 4 S 15 | 11 1 54 |
| 2 | S | 8 42 54 | 9 44 39 | 17 50 | 11 r 5 | 3 25 | 1 N 14 | 11 1 54 |
| 3 | S | 8 46 50 | 10 42 6 | 17 34 | 23 5 | 2 34 | 6 35 | 11 52 |
| 4 | M | 8 50 47 | 11 39 35 | 17 18 | 4 57 | 1 37 | 11 39 | 11 51 |
| 5 | Tu | 8 54 43 | 12 37 4 | 17 2 | 16 45 | 0 36 | 16 17 | 11 50 |
| 6 | W | 8 58 40 | 13 34 35 | 16 46 | 28 36 | 0 N 27 | 20 18 | 11 49 |
| 7 | Th | 9 2 36 | 14 32 7 | 16 29 | 10 34 | 1 29 | 23 31 | 11 48 |
| 8 | F | 9 6 33 | 15 29 41 | 16 12 | 22 44 | 2 28 | 25 44 | 11 48 |
| 9 | S | 9 10 29 | 16 27 16 | 15 55 | 5 51 | 3 22 | 26 44 | 11 47 |
| 10 | S | 9 14 26 | 17 24 53 | 15 38 | 17 58 | 4 6 | 26 19 | 11 47 |
| 11 | M | 9 18 23 | 18 22 31 | 15 20 | 1 52 | 4 39 | 24 28 | 11 47 |
| 12 | Tu | 9 22 19 | 19 20 10 | 15 2 | 14 34 | 4 57 | 21 13 | 11 47 |
| 13 | W | 9 26 16 | 20 17 50 | 14 44 | 28 20 | 4 59 | 16 44 | 11 46 |
| 14 | Th | 9 30 12 | 21 15 32 | 14 26 | 12 21 | 4 43 | 11 17 | 11 46 |
| 15 | F | 9 34 9 | 22 13 15 | 14 7 | 23 32 | 4 9 | 5 12 | 11 46 |
| 16 | S | 9 38 5 | 23 10 53 | 13 44 | 10 47 | 3 20 | 1 S 12 | 11 46 |
| 17 | S | 9 42 2 | 24 8 43 | 13 29 | 25 4 | 2 18 | 7 34 | 11 45 |
| 18 | M | 9 45 53 | 25 6 29 | 13 10 | 9 17 | 1 8 | 13 32 | 11 45 |
| 19 | Tu | 9 49 55 | 26 4 16 | 12 50 | 23 26 | 0 S 7 | 18 46 | 11 45 |
| 20 | W | 9 53 52 | 27 2 4 | 12 31 | 7 29 | 1 20 | 22 54 | 11 45 |
| 21 | Th | 9 57 43 | 27 59 51 | 12 11 | 21 26 | 2 23 | 25 39 | 11 D 15 |
| 22 | F | 10 1 45 | 28 57 43 | 11 51 | 5 17 | 3 27 | 26 48 | 11 45 |
| 23 | S | 10 5 42 | 29 55 34 | 11 31 | 18 59 | 4 13 | 28 18 | 11 46 |
| 24 | S | 10 9 38 | 0 53 27 | 11 10 | 2 32 | 4 44 | 24 14 | 11 46 |
| 25 | M | 10 13 34 | 1 51 21 | 10 50 | 15 53 | 4 59 | 20 51 | 11 46 |
| 26 | Tu | 10 17 31 | 2 49 17 | 10 29 | 29 1 | 4 54 | 16 29 | 11 46 |
| 27 | W | 10 21 27 | 3 47 14 | 10 8 | 11 51 | 4 43 | 11 27 | 11 47 |
| 28 | Th | 10 25 23 | 4 45 13 | 9 47 | 24 32 | 4 12 | 6 2 | 11 47 |
| 29 | F | 10 29 19 | 5 43 13 | 9 25 | 6 54 | 3 30 | 0 29 | 11 47 |
| 30 | S | 10 33 15 | 6 41 16 | 9 4 | 19 2 | 2 40 | 5 N 0 | 11 47 |
| 31 | S | 10 37 11 | 7 39 20 | 8 42 | 1 0 | 1 43 | 10 18 | 11 48 |

AUGUST XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|-------|---------|--------|---------|----------|---------|-----------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° | ' | ° | ' | ° | ' | ° |
| 18 35 | 16 N 56 | 18 14 | 19 N 54 | 1 N 42 | 19 N 54 | 23 11 |
| 1 83 | 16 26 | 8 14 | 20 13 | 1 46 | 18 15 | 23 1 |
| 1 81 | 16 59 | 8 4 | 20 24 | 1 45 | 16 23 | 22 52 |
| 1 29 | 17 28 | 2 53 | 20 33 | 1 38 | 14 22 | 22 42 |
| 1 27 | 17 57 | 2 41 | 20 41 | 1 27 | 12 14 | 22 33 |
| 1 25 | 18 25 | 2 29 | 20 42 | 1 12 | 10 3 | 22 23 |
| 1 23 | 18 49 | 2 17 | 20 42 | 0 54 | 7 49 | 22 14 |
| 1 20 | 19 12 | 2 5 | 20 37 | 0 33 | 5 36 | 22 4 |
| 1 17 | 19 35 | 1 51 | 20 28 | 0 12 | 3 25 | 21 55 |
| 1 14 | 19 58 | 1 40 | 20 9 | 0 8 13 | 1 16 | 21 45 |
| 1 11 | 20 19 | 1 25 | 19 47 | 0 38 | 0 8 52 | 21 36 |

| h | g | δ | ♀ | ♂ | Mutual Lunar Aspects. |
|-------|-------|-------|-------|-------|-----------------------|
| Long. | Long. | Long. | Long. | Long. | Aspts |
| ° | ' | ° | ' | ° | |
| 4 27 | 0 56 | 18 52 | 23 11 | 8 8 | 8 |
| 4 23 | 0 57 | 19 30 | 24 6 | 10 13 | ♂ ♂ ♀ |
| 4 19 | 0 58 | 20 8 | 25 4 | 12 17 | ♀ Δ ♀ |
| 4 15 | 0 59 | 20 46 | 26 3 | 14 20 | ♂ Δ ♀ |
| 4 11 | 1 0 | 21 24 | 27 2 | 16 21 | |
| 4 7 | 1 1 | 22 23 | 28 1 | 18 20 | |
| 4 3 | 1 3 | 23 40 | 29 1 | 20 18 | |
| 3 59 | 1 5 | 24 17 | 0 2 | 22 15 | |
| 3 55 | 1 7 | 25 54 | 1 2 | 24 11 | ♀ □ ♂ |
| 3 51 | 1 10 | 26 31 | 2 2 | 26 8 | |
| 4 47 | 1 12 | 25 8 | 3 4 | 28 0 | |
| 4 43 | 1 14 | 25 46 | 4 6 | 29 52 | ♀ Δ h |
| 4 38 | 1 17 | 26 21 | 5 8 | 1 41 | ♀ □ h |
| 4 34 | 1 20 | 26 57 | 6 10 | 3 29 | ♀ ♂ h |
| 4 29 | 1 23 | 27 33 | 7 12 | 5 16 | |
| 4 25 | 1 27 | 28 9 | 8 15 | 7 2 | |
| 4 20 | 1 30 | 28 45 | 9 18 | 8 47 | |
| 4 16 | 1 33 | 29 21 | 10 21 | 10 30 | ♀ * ♀ |
| 4 11 | 1 37 | 29 56 | 11 25 | 12 11 | ♀ □ ♀ |
| 4 7 | 1 41 | 0 31 | 12 29 | 13 51 | |
| 4 2 | 1 45 | 1 5 | 13 34 | 15 30 | Δ |
| 3 59 | 1 50 | 1 40 | 14 38 | 17 7 | ♂ ♂ h |
| 3 53 | 1 54 | 2 14 | 15 43 | 18 43 | * |
| 3 49 | 1 58 | 2 48 | 16 47 | 20 18 | ♂ □ h |
| 3 44 | 2 3 | 3 22 | 17 52 | 21 51 | ♂ □ h |
| 3 40 | 2 8 | 3 55 | 18 57 | 23 23 | ♂ ♂ h |
| 3 35 | 2 13 | 4 28 | 19 32 | 24 53 | ♂ □ h |
| 3 31 | 2 19 | 5 1 | 20 9 | 26 22 | ♂ □ h |
| 3 26 | 2 24 | 5 34 | 21 15 | 27 50 | ♂ □ h |
| 3 22 | 2 30 | 6 7 | 22 21 | 29 17 | ♂ □ h |
| 3 17 | 2 35 | 6 40 | 23 27 | 30 42 | Δ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 S | 22 S 15 | 1 S 49 | 12 S 24 | 0 N 33 | 20 S 11 |
| 4 | 15 | 54 | 0 | 22 15 | 1 49 | 12 29 | 0 33 | 20 15 |
| 7 | 15 | 55 | 0 | 22 15 | 1 49 | 12 34 | 0 32 | 20 19 |
| 10 | 15 | 56 | 0 | 22 16 | 1 49 | 12 39 | 0 32 | 20 23 |
| 13 | 15 | 57 | 0 | 22 16 | 1 49 | 12 43 | 0 31 | 20 28 |
| 16 | 15 | 57 | 0 | 22 17 | 1 49 | 12 48 | 0 31 | 20 33 |
| 19 | 15 | 58 | 0 | 22 17 | 1 49 | 12 52 | 0 30 | 20 38 |
| 22 | 15 | 59 | 0 | 22 18 | 1 49 | 12 56 | 0 30 | 20 43 |
| 25 | 16 | 0 | 0 | 22 19 | 1 49 | 12 59 | 0 29 | 20 49 |
| 28 | 16 | 0 | 0 | 22 20 | 1 49 | 13 2 | 0 29 | 20 54 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 10 41 7 | 8 ^m 37 26 | 8 N 21 | 12 ^h 50 | 0 S 42 | 15 N 3 | 11 ^h 48 |
| 2 | Tu | 10 45 8 | 9 35 33 | 7 59 | 24 37 | 0 N 21 | 19 17 | 11 49 |
| 3 | W | 10 49 0 | 10 33 43 | 7 37 | 6 ^h 27 | 1 23 | 22 47 | 11 49 |
| 4 | Th | 10 52 56 | 11 31 55 | 7 15 | 18 24 | 2 22 | 25 19 | 11 50 |
| 5 | F | 10 56 53 | 12 30 10 | 6 53 | 0 ^h 35 | 3 16 | 26 44 | 11 51 |
| 6 | S | 11 0 49 | 13 28 26 | 6 30 | 13 4 | 4 2 | 26 50 | 11 52 |
| 7 | S | 11 4 46 | 14 26 44 | 6 8 | 25 55 | 4 37 | 25 31 | 11 53 |
| 8 | M | 11 8 43 | 15 25 4 | 5 45 | 9 ^h 11 | 4 58 | 22 46 | 11 54 |
| 9 | Tu | 11 12 39 | 16 23 27 | 5 23 | 22 52 | 5 4 | 18 41 | 11 55 |
| 10 | W | 11 16 36 | 17 21 51 | 5 0 | 6 ^m 56 | 4 51 | 13 28 | 11 56 |
| 11 | Th | 11 20 32 | 18 20 18 | 4 37 | 21 19 | 4 20 | 7 26 | 11 57 |
| 12 | F | 11 24 29 | 19 18 46 | 4 14 | 5 ^h 54 | 3 31 | 0 53 | 11 58 |
| 13 | S | 11 28 25 | 20 17 16 | 3 51 | 20 35 | 2 29 | 5 S 45 | 11 59 |
| 14 | S | 11 32 22 | 21 15 47 | 3 28 | 5 ^m 14 | 1 16 | 12 5 | 12 0 |
| 15 | M | 11 36 18 | 22 14 20 | 3 5 | 19 46 | 0 S 1 | 17 42 | 12 1 |
| 16 | Tu | 11 40 15 | 23 12 56 | 2 42 | 4 ^h 6 | 1 17 | 22 15 | 12 2 |
| 17 | W | 11 44 12 | 24 11 32 | 2 19 | 18 13 | 2 28 | 25 24 | 12 4 |
| 18 | Th | 11 48 8 | 25 10 10 | 1 55 | 2 ^m 6 | 3 28 | 26 55 | 12 6 |
| 19 | F | 11 52 5 | 26 8 50 | 1 32 | 15 45 | 4 16 | 26 46 | 12 8 |
| 20 | S | 11 56 1 | 27 7 31 | 1 9 | 29 10 | 4 48 | 25 2 | 12 9 |
| 21 | S | 11 59 58 | 28 6 14 | 0 45 | 12 ^m 22 | 5 5 | 21 59 | 12 10 |
| 22 | M | 12 3 54 | 29 4 59 | 0 22 | 25 21 | 5 5 | 17 52 | 12 12 |
| 23 | Tu | 12 7 51 | 0 ^h 3 46 | 0 S 1 | 8 ^m 8 | 4 50 | 13 1 | 12 13 |
| 24 | W | 12 11 47 | 1 2 34 | 0 25 | 20 42 | 4 22 | 7 42 | 12 15 |
| 25 | Th | 12 15 44 | 2 1 25 | 0 48 | 3 ^h 4 | 3 41 | 2 9 | 12 16 |
| 26 | F | 12 19 41 | 3 0 17 | 1 12 | 15 15 | 2 51 | 3 N 23 | 12 18 |
| 27 | S | 12 23 37 | 3 59 12 | 1 35 | 27 16 | 1 53 | 8 45 | 12 20 |
| 28 | S | 12 27 34 | 4 58 9 | 1 59 | 9 ^h 9 | 0 51 | 13 45 | 12 22 |
| 29 | M | 12 31 30 | 5 57 8 | 2 22 | 20 57 | 0 N 12 | 18 13 | 12 24 |
| 30 | Tu | 12 35 27 | 6 56 9 | 2 45 | 2 ^h 43 | 1 16 | 21 56 | 12 26 |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S | 22 S 21 | 1 S 49 | 13 S 6 | 0 N 28 | 20 S 59 |
| 4 | 16 | 1 | 0 | 22 22 | 1 49 | 13 9 | 0 28 | 21 4 |
| 7 | 16 | 2 | 0 | 22 23 | 1 48 | 13 12 | 0 27 | 21 10 |
| 10 | 16 | 3 | 0 | 22 24 | 1 48 | 13 14 | 0 27 | 21 16 |
| 13 | 16 | 4 | 0 | 22 24 | 1 48 | 13 16 | 0 26 | 21 21 |
| 16 | 16 | 5 | 0 | 22 25 | 1 48 | 13 18 | 0 26 | 21 26 |
| 19 | 16 | 5 | 0 | 22 26 | 1 47 | 13 20 | 0 26 | 21 32 |
| 22 | 16 | 6 | 0 | 22 27 | 1 47 | 13 21 | 0 25 | 21 37 |
| 25 | 16 | 7 | 0 | 22 28 | 1 47 | 13 21 | 0 25 | 21 43 |
| 28 | 16 | 7 | 0 | 22 29 | 1 47 | 13 21 | 0 25 | 21 49 |
| 31 | 16 | 8 | 0 | 22 30 | 1 47 | 13 22 | 0 25 | 21 54 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 12 39 23 | 7 55 12 | 3 S 9 | 14 13 2 | 2 N 17 | 24 N 50 | 12 28 |
| 2 | Th | 12 43 20 | 8 54 18 | 3 32 | 26 28 | 3 13 | 26 37 | 12 30 |
| 3 | F | 12 47 16 | 9 53 27 | 3 55 | 8 37 | 3 59 | 27 10 | 12 32 |
| 4 | S | 12 51 13 | 10 52 37 | 4 19 | 21 3 | 4 37 | 26 22 | 12 34 |
| 5 | S | 12 55 9 | 11 51 50 | 4 42 | 3 52 | 5 2 | 24 12 | 12 36 |
| 6 | M | 12 59 6 | 12 51 6 | 5 5 17 | 6 5 | 12 20 | 41 12 | 35 |
| 7 | Tu | 13 3 3 | 13 50 24 | 5 26 | 0 48 | 5 5 | 15 57 | 12 40 |
| 8 | W | 13 6 59 | 14 49 44 | 5 51 | 14 56 | 4 40 | 10 14 | 12 43 |
| 9 | Th | 13 10 56 | 15 49 6 | 6 14 | 29 29 | 3 56 | 3 48 | 12 45 |
| 10 | F | 13 14 52 | 16 48 30 | 6 37 | 14 20 | 2 55 | 2 S 58 | 12 45 |
| 11 | S | 13 18 49 | 17 47 57 | 6 59 | 29 21 | 1 42 | 9 40 | 12 51 |
| 12 | S | 13 22 45 | 18 47 26 | 7 22 | 14 23 | 0 21 | 15 50 | 12 53 |
| 13 | M | 13 26 42 | 19 46 56 | 7 45 | 29 17 | 1 S 1 | 21 0 | 12 56 |
| 14 | Tu | 13 30 38 | 20 46 24 | 8 7 | 13 58 | 2 17 | 24 46 | 12 59 |
| 15 | W | 13 34 35 | 21 46 5 | 8 29 | 28 19 | 3 28 | 26 50 | 13 1 |
| 16 | Th | 13 38 32 | 22 45 39 | 8 52 | 12 20 | 4 15 | 27 8 | 13 4 |
| 17 | F | 13 42 28 | 23 45 16 | 9 14 | 25 59 | 4 52 | 25 45 | 13 7 |
| 18 | S | 13 46 25 | 24 44 56 | 9 38 | 9 18 | 5 11 | 22 57 | 13 9 |
| 19 | S | 13 50 21 | 25 44 36 | 9 58 | 22 15 | 5 14 | 19 3 | 13 12 |
| 20 | M | 13 54 18 | 26 44 19 | 10 19 | 5 1 | 5 2 | 14 21 | 13 16 |
| 21 | Tu | 13 58 14 | 27 44 3 | 10 41 | 17 31 | 4 35 | 9 9 | 13 17 |
| 22 | W | 14 2 11 | 28 43 50 | 11 2 | 29 49 | 3 56 | 3 40 | 13 20 |
| 23 | Th | 14 6 7 | 29 43 35 | 11 23 | 11 57 | 3 6 | 1 N 52 | 13 22 |
| 24 | F | 14 10 4 | 0 43 25 | 11 44 | 23 57 | 2 9 | 7 15 | 13 25 |
| 25 | S | 14 14 1 | 1 43 20 | 12 5 | 5 50 | 1 7 | 12 24 | 13 25 |
| 26 | S | 14 17 57 | 2 43 13 | 12 26 | 17 39 | 0 2 | 17 5 | 13 31 |
| 27 | M | 14 21 54 | 3 43 9 | 12 46 | 29 26 | 1 N 3 | 21 5 | 13 34 |
| 28 | Tu | 14 25 50 | 4 43 8 | 13 6 | 11 14 | 2 6 | 24 13 | 13 37 |
| 29 | W | 14 29 47 | 5 43 8 | 13 27 | 23 5 | 3 3 | 26 20 | 13 40 |
| 30 | Th | 14 33 43 | 6 43 10 | 13 46 | 5 3 | 3 53 | 27 15 | 13 43 |
| 31 | F | 14 37 40 | 7 43 15 | 14 6 | 17 12 | 4 33 | 26 53 | 13 47 |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 S | 22 S 81 | 1 S 46 | 13 S 22 | 0 N 24 | 21 S 55 |
| 4 | 16 | 10 | 0 | 22 38 | 1 46 | 13 22 | 0 24 | 22 0 |
| 7 | 16 | 11 | 0 | 22 34 | 1 45 | 13 21 | 0 23 | 22 6 |
| 10 | 16 | 12 | 0 | 22 35 | 1 45 | 13 20 | 0 23 | 22 11 |
| 13 | 16 | 12 | 0 | 22 36 | 1 45 | 13 19 | 0 22 | 22 15 |
| 16 | 16 | 13 | 0 | 22 37 | 1 45 | 13 17 | 0 22 | 22 20 |
| 19 | 16 | 14 | 0 | 22 38 | 1 44 | 13 15 | 0 22 | 22 24 |
| 22 | 16 | 14 | 0 | 22 39 | 1 44 | 13 13 | 0 22 | 22 28 |
| 25 | 16 | 15 | 0 | 22 40 | 1 43 | 13 10 | 0 21 | 22 33 |
| 28 | 16 | 15 | 0 | 22 42 | 1 43 | 13 7 | 0 21 | 22 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 14 41 36 | 8 m 43 21 | 14 S 25 | 29 37 | 5 N 2 | 25 N 11 | 13 50 |
| 2 | S | 14 45 33 | 9 43 30 | 14 45 | 12 20 | 5 16 | 22 10 | 13 53 |
| 3 | M | 14 49 30 | 10 43 41 | 15 4 | 25 27 | 5 15 | 17 59 | 13 57 |
| 4 | Tu | 14 53 26 | 11 43 54 | 15 22 | 9 1 | 4 57 | 12 47 | 14 0 |
| 5 | W | 14 57 23 | 12 44 9 | 15 40 | 23 1 | 4 21 | 6 46 | 14 3 |
| 6 | Th | 15 1 19 | 13 44 27 | 15 59 | 7 28 | 3 27 | 0 12 | 14 7 |
| 7 | F | 15 5 16 | 14 44 46 | 16 17 | 22 8 | 2 18 | 6 S 33 | 14 10 |
| 8 | S | 15 9 12 | 15 45 7 | 16 34 | 7 m 23 | 0 59 | 13 4 | 14 13 |
| 9 | S | 15 13 9 | 16 45 31 | 16 52 | 22 37 | 0 S 26 | 18 51 | 14 16 |
| 10 | M | 15 17 5 | 17 45 56 | 17 9 | 7 47 | 1 48 | 23 25 | 14 19 |
| 11 | Tu | 15 21 2 | 18 46 22 | 17 26 | 22 47 | 3 2 | 26 18 | 14 23 |
| 12 | W | 15 24 59 | 19 46 50 | 17 42 | 7 27 | 4 2 | 27 17 | 14 26 |
| 13 | Th | 15 28 55 | 20 47 19 | 17 58 | 21 42 | 4 45 | 26 24 | 14 30 |
| 14 | F | 15 32 52 | 21 47 50 | 18 14 | 5 m 31 | 5 11 | 23 55 | 14 33 |
| 15 | S | 15 36 48 | 22 48 22 | 18 30 | 18 54 | 5 18 | 20 13 | 14 37 |
| 16 | S | 15 40 44 | 23 48 55 | 18 45 | 1 x 53 | 5 9 | 15 37 | 14 40 |
| 17 | M | 15 44 41 | 24 49 29 | 19 0 | 14 31 | 4 45 | 10 29 | 14 43 |
| 18 | Tu | 15 48 38 | 25 50 5 | 19 14 | 26 52 | 4 8 | 5 2 | 14 46 |
| 19 | W | 15 52 34 | 26 50 42 | 19 28 | 9 0 | 3 20 | 0 N 30 | 14 50 |
| 20 | Th | 15 56 31 | 27 51 20 | 19 42 | 20 57 | 2 25 | 5 57 | 14 54 |
| 21 | F | 16 0 28 | 28 51 59 | 19 56 | 28 49 | 1 24 | 11 10 | 14 58 |
| 22 | S | 16 4 24 | 29 52 40 | 20 9 | 14 38 | 0 19 | 15 56 | 15 1 |
| 23 | S | 16 8 21 | 0 53 22 | 20 21 | 26 25 | 0 N 46 | 20 8 | 15 4 |
| 24 | M | 16 12 17 | 1 54 5 | 20 34 | 8 15 | 1 49 | 23 30 | 15 8 |
| 25 | Tu | 16 16 14 | 2 54 50 | 20 46 | 20 7 | 2 49 | 25 54 | 15 11 |
| 26 | W | 16 20 10 | 3 55 36 | 20 57 | 25 6 | 3 40 | 27 7 | 15 15 |
| 27 | Th | 16 24 7 | 4 56 23 | 21 9 | 14 12 | 4 23 | 27 4 | 15 19 |
| 28 | F | 16 28 3 | 5 57 12 | 21 19 | 26 28 | 4 54 | 25 41 | 15 22 |
| 29 | S | 16 32 0 | 6 58 3 | 21 30 | 8 57 | 5 12 | 23 3 | 15 26 |
| 30 | S | 16 35 57 | 7 58 55 | 21 40 | 21 41 | 5 15 | 19 15 | 15 30 |

| 1817.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | 23 | |
|--------------------|------------|-----------------------------------|------------|------------|------------|---------------|----------------|------------|---|---|---|----|---|
| NOVEMBER XXX DAYS. | | | | | | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's Node. | | | | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | |
| 1 | 0 N 40 | 24 N 4 | 1 N 40 | 1 S 28 | 2 N 5 | 6 S 41 | 18 19 | | | | | | |
| 4 | 0 48 | 24 13 | 1 42 | 2 58 | 1 54 | 8 30 | 18 9 | | | | | | |
| 7 | 0 57 | 24 21 | 1 43 | 4 18 | 1 40 | 10 23 | 18 0 | | | | | | |
| 10 | 1 6 | 24 28 | 1 43 | 5 43 | 1 23 | 12 16 | 17 50 | | | | | | |
| 13 | 1 15 | 24 36 | 1 43 | 7 6 | 1 8 | 14 7 | 17 41 | | | | | | |
| 16 | 1 24 | 24 43 | 1 42 | 8 30 | 0 43 | 15 52 | 17 31 | | | | | | |
| 19 | 1 33 | 24 51 | 1 41 | 9 50 | 0 23 | 17 32 | 17 22 | | | | | | |
| 22 | 1 42 | 24 56 | 1 39 | 11 9 | 0 2 | 19 4 | 17 12 | | | | | | |
| 25 | 1 51 | 25 2 | 1 36 | 12 26 | 0 S 18 | 20 28 | 17 3 | | | | | | |
| 28 | 2 0 | 25 6 | 1 33 | 13 40 | 0 37 | 21 43 | 16 53 | | | | | | |
| D
M | h | ♄ | ♅ | ♆ | ♇ | Mutual Aspts. | Lunar Aspects. | | | | | | |
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♅ | ♆ | ♇ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | | |
| 1 | 29 21 | 12 28 | 26 4 | 7 31 | 22 7 | | | | | | | | |
| 2 | 29 21 | 12 40 | 26 2 | 8 44 | 23 34 | | ☐ | Δ | | Δ | * | * | |
| 3 | 29 21 | 12 53 | 25 59 | 9 58 | 25 5 | | | | ♂ | | * | | * |
| 4 | 29 21 | 13 5 | 25 55 | 11 12 | 26 38 | ♂ Δ ♂ | * | ☐ | | ☐ | | | |
| 5 | 29 21 | 13 18 | 25 51 | 12 26 | 28 11 | ♂ Δ ♈ | | | | | ☐ | | |
| 6 | 29 22 | 13 30 | 25 46 | 13 40 | 29 45 | ♀ * ♈ | | * | | * | | ♂ | |
| 7 | 29 22 | 13 43 | 25 40 | 14 54 | 1 19 | | | | Δ | | Δ | | ♂ |
| 8 | 29 22 | 13 56 | 25 33 | 16 8 | 2 54 | | | | | | | | ♂ |
| 9 | 29 22 | 14 9 | 25 25 | 17 22 | 4 30 | | ♂ | | ☐ | | | | |
| 10 | 29 23 | 14 22 | 25 16 | 18 36 | 6 6 | ♄ ♂ ♈ | ♂ | ♂ | | ♂ | | | |
| 11 | 29 24 | 14 35 | 25 7 | 19 51 | 7 42 | | | | * | | ♂ | * | |
| 12 | 29 25 | 14 48 | 24 57 | 21 5 | 9 18 | | | | | | | | * |
| 13 | 29 26 | 15 1 | 24 46 | 22 20 | 10 55 | | * | | | | ☐ | | |
| 14 | 29 27 | 15 14 | 24 34 | 23 34 | 12 31 | | | | | | | | |
| 15 | 29 28 | 15 27 | 24 21 | 24 48 | 14 7 | ♀ Δ ♂ | ☐ | * | | * | Δ | | ☐ |
| 16 | 29 30 | 15 40 | 24 7 | 26 3 | 15 43 | | | | ♂ | | | Δ | |
| 17 | 29 31 | 15 53 | 23 52 | 27 17 | 17 19 | | | ☐ | | ☐ | | | Δ |
| 18 | 29 32 | 16 6 | 23 37 | 28 31 | 18 55 | | Δ | | | | ☐ | | |
| 19 | 29 34 | 16 19 | 23 21 | 29 46 | 20 31 | ♀ Δ ♈ | | | | | | | |
| 20 | 29 36 | 16 32 | 23 4 | 1 0 | 22 7 | | | Δ | | Δ | * | | |
| 21 | 29 38 | 16 45 | 22 46 | 2 15 | 23 42 | | | | * | | | ♂ | |
| 22 | 29 40 | 16 59 | 22 28 | 3 29 | 25 17 | ☉ ☐ ♈ | | | | | | | |
| 23 | 29 42 | 17 12 | 22 9 | 4 44 | 26 52 | | ♂ | | ☐ | | | | ♂ |
| 24 | 29 44 | 17 25 | 21 50 | 5 59 | 28 27 | | | | | | | | |
| 25 | 29 46 | 17 39 | 21 30 | 7 14 | 0 1 | ♂ ☐ ♈ | | ♂ | | ♂ | ♂ | | |
| 26 | 29 49 | 17 52 | 21 9 | 8 28 | 1 36 | | | | Δ | | | | |
| 27 | 29 51 | 18 6 | 20 48 | 9 43 | 3 11 | | | | | | | Δ | |
| 28 | 29 54 | 18 19 | 20 26 | 10 58 | 4 45 | | | | | | | | Δ |
| 29 | 29 56 | 18 33 | 20 4 | 12 13 | 6 20 | | Δ | | | | | ☐ | |
| 30 | 29 59 | 18 46 | 19 42 | 13 28 | 7 54 | ☉ ♂ ♂ | | Δ | | Δ | * | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 2 | 22 S 43 | 1 S 42 | 13 S 4 | 0 N 20 | 22 S 40 |
| 4 | 16 | 15 | 0 2 | 22 44 | 1 42 | 13 1 | 0 20 | 22 43 |
| 7 | 16 | 16 | 0 2 | 22 46 | 1 42 | 12 57 | 0 20 | 22 47 |
| 10 | 16 | 16 | 0 2 | 22 47 | 1 42 | 12 58 | 0 20 | 22 50 |
| 13 | 16 | 16 | 0 2 | 22 48 | 1 41 | 12 48 | 0 19 | 22 53 |
| 16 | 16 | 16 | 0 2 | 22 49 | 1 41 | 12 43 | 0 19 | 22 56 |
| 19 | 16 | 17 | 0 2 | 22 50 | 1 41 | 12 39 | 0 19 | 22 58 |
| 22 | 16 | 17 | 0 2 | 22 51 | 1 41 | 12 34 | 0 19 | 23 0 |
| 25 | 16 | 17 | 0 2 | 22 51 | 1 40 | 12 28 | 0 18 | 23 2 |
| 28 | 16 | 17 | 0 2 | 22 51 | 1 40 | 12 23 | 0 18 | 23 4 |
| 31 | 16 | 17 | 0 2 | 22 50 | 1 40 | 12 17 | 0 18 | 23 5 |
| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♄
Long.
° ' " | ♄
Lat.
° ' " | ♄
Declin.
° ' " | ♃
Long.
° ' " |
| 1 | M | 16 39 53 | 8 59 48 | 21 S 49 | 4 m 44 | 5 N 2 | 14 N 28 | 15 34 |
| 2 | Tu | 16 43 50 | 10 0 43 | 21 59 | 18 8 | 4 33 | 8 53 | 15 37 |
| 3 | W | 16 47 46 | 11 1 39 | 22 7 | 1 m 54 | 3 47 | 2 43 | 15 41 |
| 4 | Th | 16 51 43 | 12 2 37 | 22 16 | 16 5 | 2 46 | 3 S 47 | 15 45 |
| 5 | F | 16 55 39 | 13 3 36 | 22 23 | 0 m 39 | 1 33 | 10 15 | 15 49 |
| 6 | S | 16 59 36 | 14 4 36 | 22 31 | 15 32 | 0 13 | 16 8 | 15 52 |
| 7 | S | 17 3 32 | 15 5 38 | 22 38 | 0 37 | 1 S 10 | 21 26 | 15 56 |
| 8 | M | 17 7 29 | 16 6 40 | 22 44 | 15 47 | 2 28 | 25 9 | 16 0 |
| 9 | Tu | 17 11 26 | 17 7 44 | 22 50 | 0 m 52 | 3 34 | 27 2 | 16 3 |
| 10 | W | 17 15 22 | 18 8 48 | 22 56 | 15 43 | 4 26 | 26 56 | 16 7 |
| 11 | Th | 17 19 19 | 19 9 52 | 23 1 | 0 m 11 | 4 59 | 25 0 | 16 11 |
| 12 | F | 17 23 15 | 20 10 57 | 23 6 | 14 12 | 5 12 | 21 34 | 16 15 |
| 13 | S | 17 27 12 | 21 12 3 | 23 10 | 27 44 | 5 8 | 17 5 | 16 18 |
| 14 | S | 17 31 8 | 22 13 9 | 23 14 | 10 m 49 | 4 47 | 11 57 | 16 21 |
| 15 | M | 17 35 5 | 23 14 15 | 23 18 | 23 29 | 4 13 | 6 28 | 16 25 |
| 16 | Tu | 17 39 1 | 24 15 22 | 23 20 | 5 m 49 | 3 28 | 0 52 | 16 29 |
| 17 | W | 17 42 58 | 25 16 28 | 23 23 | 17 53 | 2 35 | 4 N 38 | 16 32 |
| 18 | Th | 17 46 55 | 26 17 35 | 23 25 | 29 46 | 1 35 | 9 55 | 16 36 |
| 19 | F | 17 50 51 | 27 18 44 | 23 26 | 11 m 34 | 0 32 | 14 48 | 16 40 |
| 20 | S | 17 54 48 | 28 19 51 | 23 27 | 23 21 | 0 N 32 | 19 9 | 16 43 |
| 21 | S | 17 58 44 | 29 20 59 | 23 28 | 5 m 10 | 1 34 | 22 44 | 16 47 |
| 22 | M | 18 2 41 | 0 m 22 | 23 28 | 17 4 | 2 33 | 25 23 | 16 51 |
| 23 | Tu | 18 6 37 | 1 23 16 | 23 27 | 29 5 | 3 26 | 26 54 | 16 55 |
| 24 | W | 18 10 34 | 2 24 25 | 23 27 | 11 m 16 | 4 10 | 27 8 | 16 58 |
| 25 | Th | 18 14 31 | 3 25 34 | 23 25 | 23 36 | 4 42 | 26 2 | 17 1 |
| 26 | F | 18 18 28 | 4 26 44 | 23 23 | 6 m 7 | 5 23 | 38 38 | 17 5 |
| 27 | S | 18 22 25 | 5 27 54 | 23 21 | 18 49 | 5 7 | 20 3 | 17 8 |
| 28 | S | 18 26 22 | 6 29 4 | 23 18 | 1 m 44 | 4 57 | 15 29 | 17 12 |
| 29 | M | 18 30 19 | 7 30 14 | 23 15 | 14 53 | 4 21 | 10 7 | 17 15 |
| 30 | Tu | 18 34 16 | 8 31 25 | 23 11 | 28 15 | 3 50 | 4 12 | 17 19 |
| 31 | W | 18 38 13 | 9 32 37 | 23 7 | 11 m 55 | 2 55 | 3 S 2 | 17 23 |

DECEMBER XXXI DAYS.

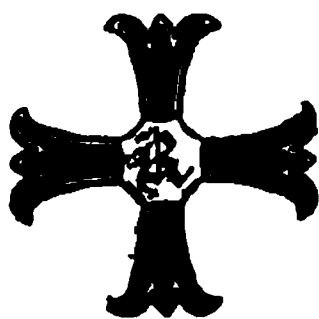
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' | ° ' ' |
| 1 | 2 N 7 | 25 N 9 | 1 N 29 | 14 S 50 | 0 S 56 | 22 S 49 | 16 48 |
| 4 | 2 15 | 25 10 | 1 25 | 15 56 | 1 13 | 23 44 | 16 38 |
| 7 | 2 22 | 25 11 | 1 19 | 17 3 | 1 29 | 24 28 | 16 24 |
| 10 | 2 28 | 25 10 | 1 14 | 18 1 | 1 42 | 25 1 | 16 14 |
| 13 | 2 34 | 25 8 | 1 8 | 19 0 | 1 54 | 25 21 | 16 5 |
| 16 | 2 39 | 25 5 | 1 1 | 19 50 | 2 3 | 25 29 | 15 55 |
| 19 | 2 43 | 25 2 | 0 55 | 20 38 | 2 9 | 25 23 | 15 46 |
| 22 | 2 47 | 24 59 | 0 48 | 21 15 | 2 12 | 25 3 | 15 36 |
| 25 | 2 50 | 24 54 | 0 41 | 21 56 | 2 10 | 24 30 | 15 27 |
| 28 | 2 53 | 24 49 | 0 34 | 22 24 | 2 4 | 23 42 | 15 17 |
| 31 | 2 56 | 24 40 | 0 26 | 22 44 | 1 51 | 22 42 | 15 8 |

| D
M | h | | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|--------|----------|---------|--------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 0 x 2 | 19 f 0 | 19 11 20 | 14 m 43 | 9 f 28 | | | | | ☐ | | ♈ | | | | ☐ |
| 2 | 0 5 | 19 18 | 18 57 | 15 58 | 11 3 | ♈ | ♈ | ♈ | | | ☐ | | ☐ | ☐ | * | |
| 3 | 0 8 | 19 27 | 18 34 | 17 13 | 12 37 | | | | | | | | | | | |
| 4 | 0 11 | 19 40 | 18 10 | 18 28 | 14 11 | | | | | * | * | | * | Δ | | * |
| 5 | 0 14 | 19 54 | 17 47 | 19 43 | 15 46 | ♈ | ♈ | ♈ | | | | Δ | | | | |
| 6 | 0 17 | 20 8 | 17 24 | 20 58 | 17 20 | ♈ | ♈ | ♈ | | | | | | | | ♈ |
| 7 | 0 21 | 20 22 | 17 1 | 22 13 | 18 54 | ☉ | ♈ | ♈ | | ☉ | ♈ | ☐ | | ♈ | | ♈ |
| 8 | 0 24 | 20 35 | 16 38 | 23 28 | 20 29 | ☉ | ♈ | ♈ | | ☉ | ♈ | * | | ♈ | | ♈ |
| 9 | 0 28 | 20 49 | 16 15 | 24 43 | 22 3 | ♈ | ♈ | ♈ | | | | * | | | | |
| 10 | 0 31 | 21 3 | 15 52 | 25 58 | 23 37 | ♈ | ♈ | ♈ | | | | | | | | |
| 11 | 0 35 | 21 16 | 15 29 | 27 13 | 25 12 | | | | | | | | | | | * |
| 12 | 0 39 | 21 30 | 15 6 | 28 28 | 26 46 | | | | | * | * | | | Δ | | * |
| 13 | 0 43 | 21 44 | 14 44 | 29 44 | 28 21 | ♈ | ☐ | ♈ | | | | ♈ | * | | ☐ | * |
| 14 | 0 47 | 21 58 | 14 23 | 0 f 59 | 29 56 | ☉ | ♈ | ♈ | | | ☐ | | | | ☐ | |
| 15 | 0 51 | 22 11 | 14 2 | 2 14 | 1 w 31 | ♈ | * | ♈ | | ☐ | | | | ☐ | | |
| 16 | 0 56 | 22 25 | 13 41 | 3 29 | 3 6 | | | | | | | | | | | Δ |
| 17 | 1 0 | 22 39 | 13 20 | 4 44 | 4 41 | | | | | | Δ | | * | | | ☐ |
| 18 | 1 4 | 22 52 | 12 59 | 5 59 | 6 16 | | | | | Δ | | * | | | | |
| 19 | 1 9 | 23 6 | 12 39 | 7 15 | 7 51 | | | | | | | | | | | Δ |
| 20 | 1 13 | 23 20 | 12 20 | 8 30 | 9 26 | | | | | | | | | | | |
| 21 | 1 18 | 23 33 | 12 2 | 9 45 | 11 1 | | | | | | | ☐ | | | | ♈ |
| 22 | 1 22 | 23 47 | 11 44 | 11 0 | 12 36 | ♈ | ♈ | ♈ | | ♈ | | | | ♈ | | |
| 23 | 1 27 | 24 1 | 11 27 | 12 15 | 14 11 | ☉ | * | ♈ | | ♈ | | Δ | | ♈ | | |
| 24 | 1 32 | 24 14 | 11 10 | 13 30 | 15 46 | | | | | | | | | | | |
| 25 | 1 37 | 24 28 | 10 54 | 14 46 | 17 20 | | | | | | | | | | | ♈ |
| 26 | 1 42 | 24 41 | 10 39 | 16 1 | 18 54 | | | | | | | | | | * | |
| 27 | 1 47 | 24 55 | 10 25 | 17 16 | 20 27 | ♈ | ♈ | ♈ | | | Δ | | | Δ | | Δ |
| 28 | 1 52 | 25 8 | 10 11 | 18 33 | 22 0 | | | | | Δ | | ♈ | | | | |
| 29 | 1 57 | 25 22 | 9 58 | 19 46 | 23 32 | | | | | | ☐ | | | ☐ | ☐ | |
| 30 | 2 2 | 25 35 | 9 46 | 21 1 | 25 2 | | | | | | | | | ☐ | | Δ |
| 31 | 2 7 | 25 49 | 9 35 | 22 17 | 26 31 | | | | | ☐ | * | | | Δ | | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1818.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

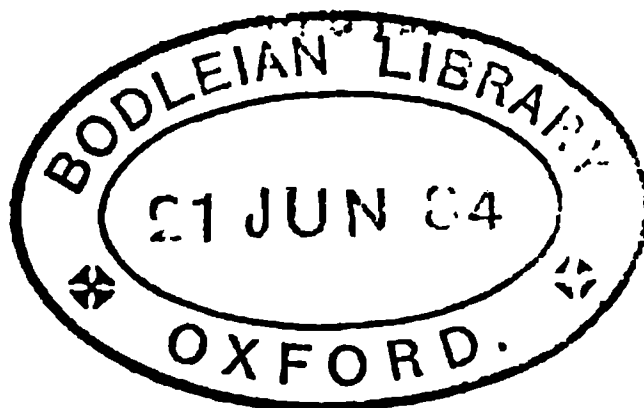
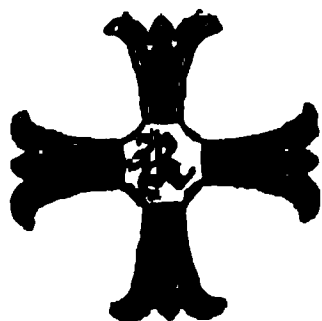
Price One Shilling.

(Alm.) 934 x .16

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANET'S PLACES

For 1818.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|-------|---------|-------|----------|--------|
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 8 | 22 50 | 1 8 | 12 14 | 0 N 17 | 23 8 7 |
| 2 | 16 | 16 | 0 8 | 22 51 | 1 8 | 12 8 | 0 17 | 23 8 |
| 3 | 16 | 16 | 0 8 | 22 52 | 1 8 | 12 2 | 0 17 | 23 9 |
| 4 | 16 | 16 | 0 8 | 22 53 | 1 8 | 11 56 | 0 17 | 23 10 |
| 5 | 16 | 17 | 0 8 | 22 53 | 1 8 | 11 49 | 0 17 | 23 11 |
| 6 | 16 | 17 | 0 8 | 22 54 | 1 8 | 11 42 | 0 17 | 23 12 |
| 7 | 16 | 17 | 0 8 | 22 54 | 1 38 | 11 35 | 0 16 | 23 12 |
| 8 | 16 | 18 | 0 8 | 22 55 | 1 38 | 11 28 | 0 16 | 23 12 |
| 9 | 16 | 18 | 0 8 | 22 55 | 1 38 | 11 20 | 0 16 | 23 12 |
| 10 | 16 | 18 | 0 8 | 22 56 | 1 38 | 11 12 | 0 16 | 23 11 |
| 11 | 16 | 18 | 0 8 | 22 57 | 1 38 | 11 4 | 0 16 | 23 11 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♄
Long. |
|--------|--------|-------------------|------------|-------------|------------|-------------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 18 42 10 | 10 w 33 49 | 8 25 51 | 2 N 49 | 8 8 19 | 17 26 | |
| 2 | F | 18 46 6 | 11 35 0 | 22 58 10 | 0 35 14 | 19 17 29 | | |
| 3 | S | 18 50 3 | 12 36 13 | 22 52 24 | 0 34 19 | 38 17 32 | | |
| 4 | S | 18 53 59 | 13 37 25 | 22 46 9 | 1 59 23 | 50 17 36 | | |
| 5 | M | 18 57 56 | 14 38 38 | 22 40 24 | 3 7 26 | 27 17 39 | | |
| 6 | Tu | 19 1 53 | 15 39 50 | 22 33 9 | 27 12 | 17 42 | | |
| 7 | W | 19 5 49 | 16 41 2 | 22 25 23 | 26 0 | 17 45 | | |
| 8 | Th | 19 9 46 | 17 42 14 | 22 18 8 | 23 6 | 17 49 | | |
| 9 | F | 19 13 42 | 18 43 25 | 22 9 22 | 18 52 | 17 52 | | |
| 10 | S | 19 17 39 | 19 44 36 | 22 1 5 | 18 48 | 17 55 | | |
| 11 | S | 19 21 35 | 20 45 47 | 22 52 19 | 14 8 | 15 17 59 | | |
| 12 | M | 19 25 32 | 21 46 56 | 21 42 1 | 8 31 | 3 18 3 | | |
| 13 | Tu | 19 29 28 | 22 48 5 | 21 32 14 | 2 39 | 8 N 9 18 6 | | |
| 14 | W | 19 33 25 | 23 49 13 | 21 22 26 | 1 40 | 8 34 18 10 | | |
| 15 | Th | 19 37 22 | 24 50 20 | 21 11 8 | 0 39 | 18 37 18 13 | | |
| 16 | F | 19 41 18 | 25 51 26 | 21 0 19 | 0 N 24 | 18 8 18 16 | | |
| 17 | S | 19 45 14 | 26 52 31 | 20 48 1 | 26 21 | 56 18 19 | | |
| 18 | S | 19 49 11 | 27 53 34 | 20 36 13 | 24 24 | 50 18 22 | | |
| 19 | M | 19 53 8 | 28 54 38 | 20 24 25 | 3 16 | 26 39 18 25 | | |
| 20 | Tu | 19 57 4 | 29 55 41 | 20 11 7 | 0 27 | 14 18 28 | | |
| 21 | W | 20 1 1 | 0 m 56 42 | 19 58 20 | 4 33 | 26 28 18 30 | | |
| 22 | Th | 20 4 58 | 1 57 43 | 19 45 2 | 4 54 | 24 20 18 33 | | |
| 23 | F | 20 8 54 | 2 58 43 | 19 31 15 | 5 0 | 20 58 18 35 | | |
| 24 | S | 20 12 51 | 3 59 42 | 19 17 28 | 4 51 | 16 30 18 37 | | |
| 25 | S | 20 16 47 | 5 0 40 | 19 2 11 | 4 26 | 11 12 18 40 | | |
| 26 | M | 20 20 44 | 6 1 38 | 18 47 25 | 3 46 | 6 19 18 42 | | |
| 27 | Tu | 20 24 40 | 7 2 34 | 18 32 8 | 3 53 | 0 5 18 45 | | |
| 28 | W | 20 28 37 | 8 3 30 | 18 16 22 | 1 49 | 7 8 18 48 | | |
| 29 | Th | 20 32 33 | 9 4 25 | 18 0 6 | 0 38 | 18 7 18 51 | | |
| 30 | F | 20 36 30 | 10 5 20 | 17 44 20 | 0 8 36 | 18 30 18 54 | | |
| 31 | S | 20 40 27 | 11 6 14 | 17 28 4 | 1 49 | 22 54 18 57 | | |

JANUARY XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|---------|--------|---------|----------|---------|-----------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° | ' | ° | ' | ° | ' | ° |
| 2 N 54 | 24 N 45 | 0 N 24 | 22 S 55 | 1 S 46 | 23 S 19 | 15 5 5 |
| 2 54 | 24 42 | 0 16 | 23 10 | 1 24 | 21 4 | 14 56 |
| 2 55 | 24 39 | 0 8 | 23 19 | 0 53 | 19 43 | 14 46 |
| 2 55 | 24 37 | 0 0 | 23 22 | 0 13 | 18 21 | 14 37 |
| 2 54 | 24 36 | 0 S 6 | 23 18 | 0 N 35 | 17 20 | 14 27 |
| 3 53 | 24 36 | 0 13 | 23 4 | 1 30 | 16 18 | 14 18 |
| 3 53 | 24 36 | 0 21 | 22 50 | 2 24 | 15 53 | 14 8 |
| 3 50 | 24 37 | 0 28 | 22 26 | 3 7 | 15 58 | 13 59 |
| 3 49 | 24 38 | 0 35 | 21 58 | 3 33 | 16 23 | 13 49 |
| 3 47 | 24 40 | 0 41 | 21 32 | 3 35 | 17 4 | 13 40 |
| 3 46 | 24 44 | 0 48 | 20 41 | 3 18 | 17 48 | 13 30 |

| h
Long. | λ
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 2 x 12 26 | 2 2 | 9 11 26 | 23 7 38 | 27 17 58 | | | | Δ | * | | * | □ |
| 2 17 26 | 16 | 9 15 24 | 48 39 | 24 | | * | | | | | | * |
| 2 23 26 | 29 | 9 6 26 | 4 0 | 47 | ♀ ☉ ♈ | | | | | | | * |
| 2 29 26 | 43 | 8 58 27 | 19 2 | 7 | | | | □ | | ♊ | | |
| 2 35 26 | 56 | 8 51 28 | 35 8 | 24 | | | ♈ | | ♈ | | ♈ | |
| 2 41 27 | 10 | 8 45 29 | 50 4 | 36 | | ♈ | | * | | | | |
| 2 47 27 | 23 | 8 40 1 | 5 5 | 43 | | | | | | | | |
| 2 53 27 | 37 | 8 35 2 | 21 6 | 45 | ♀ * ♈ | | | | | Δ | | ♈ |
| 2 59 27 | 50 | 8 31 3 | 36 7 | 41 | | * | | | | | | |
| 3 5 28 | 3 | 8 28 4 | 52 8 | 30 | ♈ Δ ♈ | | | ♈ | * | □ | * | |
| 3 11 28 | 16 | 8 26 6 | 7 9 | 11 | | * | □ | | | | | |
| 3 17 28 | 29 | 8 25 7 | 22 9 | 43 | | | | | | | | |
| 3 23 28 | 43 | 8 24 8 | 37 10 | 5 | | | Δ | | | * | | * |
| 3 29 28 | 56 | 8 D 24 9 | 53 10 | 16 | | □ | | | Δ | | | |
| 3 35 29 | 8 | 8 25 11 | 8 10 | 16 | | | | ■ | | | Δ | □ |
| 3 41 29 | 21 | 8 27 12 | 24 10 | 6 | | | | | | | | |
| 3 47 29 | 34 | 8 30 13 | 39 9 | 44 | | Δ | | □ | | | | |
| 3 54 29 | 47 | 8 33 14 | 54 9 | 10 | | | ♊ | | | ♈ | | Δ |
| 4 1 0 | 0 | 8 36 16 | 9 8 | 23 | ♈ Δ ♈ | | | | ♊ | | | |
| 4 7 0 | 13 | 8 40 17 | 26 7 | 27 | | | | Δ | | | | |
| 4 14 0 | 26 | 8 45 18 | 40 6 | 24 | | | | | | | ♊ | |
| 4 20 0 | 39 | 8 51 19 | 56 5 | 15 | | ♊ | | | | * | | ♊ |
| 4 27 0 | 52 | 8 58 21 | 11 4 | 2 | | | Δ | | | | | |
| 4 33 1 | 5 | 9 6 22 | 26 2 | 46 | ☉ ☉ ♈ | | | ♊ | Δ | | | |
| 4 40 1 | 17 | 9 14 23 | 41 1 | 29 | | | □ | | | □ | | |
| 4 46 1 | 30 | 9 23 24 | 57 0 | 15 | | | | | | □ | Δ | Δ |
| 4 53 1 | 42 | 9 32 26 | 12 29 | 6 | | Δ | | | | | Δ | |
| 5 0 1 | 55 | 9 42 27 | 28 28 | 3 | | | * | | | | □ | □ |
| 5 6 2 | 7 | 9 52 28 | 43 27 | 6 | | □ | | Δ | * | | | |
| 5 13 2 | 19 | 10 3 29 | 53 26 | 18 | ☉ Δ ♈ | | | | | | | * |
| 5 20 2 | 31 | 10 15 1 | 13 25 | 40 | | | | □ | | ♊ | * | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 8 | 22 S 58 | 1 S 38 | 11 S 3 | 0 N 15 | 23 S 11 |
| 4 | 16 | 15 | 0 3 | 22 58 | 1 38 | 10 55 | 0 15 | 23 11 |
| 7 | 16 | 14 | 0 3 | 22 58 | 1 38 | 10 47 | 0 15 | 23 10 |
| 10 | 16 | 14 | 0 3 | 22 59 | 1 38 | 10 39 | 0 15 | 23 9 |
| 13 | 16 | 13 | 0 3 | 23 0 | 1 38 | 10 31 | 0 14 | 23 8 |
| 16 | 16 | 12 | 0 3 | 23 2 | 1 38 | 10 23 | 0 14 | 23 7 |
| 19 | 16 | 11 | 0 3 | 23 4 | 1 38 | 10 15 | 0 14 | 23 5 |
| 22 | 16 | 11 | 0 3 | 23 6 | 1 38 | 10 7 | 0 14 | 23 4 |
| 25 | 16 | 10 | 0 3 | 23 7 | 1 38 | 9 59 | 0 14 | 23 3 |
| 28 | 16 | 10 | 0 3 | 23 8 | 1 38 | 9 51 | 0 14 | 23 2 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ♂
Long. | | ♂
Lat. | | ♂
Declin. | | ♂
Long. | |
|--------|--------|-------------------|----|----|-----------------|-------|--------------|--------------------|------------|---------|-----------|---|--------------|---|------------|---|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 20 | 44 | 23 | 12 ^m | 7 7 | 17 S 11 | 19 7 6 | 2 S 55 | 25 S 56 | 19 7 0 | | | | | |
| 2 | M | 20 | 48 | 20 | 13 | 7 59 | 16 54 | 3 ^m 30 | 3 S 51 | 27 16 | 19 3 | | | | | |
| 3 | Tu | 20 | 52 | 16 | 14 | 8 50 | 16 36 | 17 55 | 4 S 31 | 26 45 | 19 5 | | | | | |
| 4 | W | 20 | 56 | 13 | 15 | 9 40 | 16 18 | 2 ^m 14 | 4 S 55 | 24 28 | 19 8 | | | | | |
| 5 | Th | 21 | 0 | 9 | 16 | 10 29 | 16 0 | 16 22 | 5 0 | 20 43 | 19 10 | | | | | |
| 6 | F | 21 | 4 | 6 | 17 | 11 16 | 15 42 | 0 ^x 13 | 4 47 | 15 53 | 19 13 | | | | | |
| 7 | S | 21 | 8 | 2 | 18 | 12 2 | 15 23 | 13 44 | 4 18 | 10 22 | 19 15 | | | | | |
| 8 | S | 21 | 11 | 59 | 19 | 12 47 | 15 5 | 26 51 | 3 S 36 | 4 33 | 19 17 | | | | | |
| 9 | M | 21 | 15 | 55 | 20 | 13 30 | 14 46 | 9 ^r 35 | 2 44 | 1 N 17 | 19 19 | | | | | |
| 10 | Tu | 21 | 19 | 52 | 21 | 14 11 | 14 26 | 21 59 | 1 45 | 6 56 | 19 21 | | | | | |
| 11 | W | 21 | 23 | 49 | 22 | 14 51 | 14 7 | 4 ^m 6 | 0 43 | 12 13 | 19 23 | | | | | |
| 12 | Th | 21 | 27 | 45 | 23 | 15 29 | 13 47 | 16 2 | 0 N 20 | 16 58 | 19 25 | | | | | |
| 13 | F | 21 | 31 | 42 | 24 | 16 5 | 13 27 | 27 51 | 1 22 | 21 2 | 19 27 | | | | | |
| 14 | S | 21 | 35 | 38 | 25 | 16 39 | 13 7 | 9 ⁿ 39 | 2 20 | 24 14 | 19 29 | | | | | |
| 15 | S | 21 | 39 | 35 | 26 | 17 11 | 12 46 | 21 32 | 3 12 | 26 23 | 19 31 | | | | | |
| 16 | M | 21 | 43 | 31 | 27 | 17 42 | 12 25 | 3 ^u 34 | 3 S 57 | 27 21 | 19 33 | | | | | |
| 17 | Tu | 21 | 47 | 28 | 28 | 18 11 | 12 5 | 15 50 | 4 S 31 | 27 1 | 19 34 | | | | | |
| 18 | W | 21 | 51 | 24 | 29 | 18 37 | 11 44 | 28 22 | 4 S 54 | 25 18 | 19 36 | | | | | |
| 19 | Th | 21 | 55 | 21 | 0 ^x | 19 2 | 11 22 | 11 ^u 13 | 5 2 | 22 16 | 19 38 | | | | | |
| 20 | F | 21 | 59 | 18 | 1 | 19 25 | 11 1 | 24 22 | 4 S 54 | 18 2 | 19 40 | | | | | |
| 21 | S | 22 | 3 | 14 | 2 | 19 47 | 10 89 | 7 ^m 48 | 4 S 30 | 12 50 | 19 42 | | | | | |
| 22 | S | 22 | 7 | 11 | 3 | 20 7 | 10 18 | 21 28 | 3 S 51 | 6 55 | 19 43 | | | | | |
| 23 | M | 22 | 11 | 7 | 4 | 20 25 | 9 56 | 5 ^u 19 | 2 S 57 | 0 35 | 19 45 | | | | | |
| 24 | Tu | 22 | 15 | 4 | 5 | 20 42 | 9 34 | 19 18 | 1 S 52 | 5 S 50 | 19 46 | | | | | |
| 25 | W | 22 | 19 | 0 | 6 | 20 56 | 9 12 | 3 ^m 21 | 0 40 | 12 2 | 19 48 | | | | | |
| 26 | Th | 22 | 22 | 57 | 7 | 21 10 | 8 49 | 17 27 | 0 S 35 | 17 37 | 19 50 | | | | | |
| 27 | F | 22 | 26 | 53 | 8 | 21 22 | 8 27 | 1 ^r 38 | 1 48 | 22 16 | 19 51 | | | | | |
| 28 | S | 22 | 30 | 50 | 9 | 21 33 | 8 4 | 15 40 | 2 S 55 | 25 25 | 19 52 | | | | | |

FEBRUARY XXVIII DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|---------|--------|---------|----------|---------|-----------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 2 N 45 | 24 N 45 | 08 50 | 20 8 28 | 2 N 11 | 18 8 0 | 18 26 |
| 2 43 | 24 49 | 0 57 | 19 87 | 2 41 | 18 36 | 18 16 |
| 2 41 | 24 53 | 1 1 | 18 44 | 2 6 | 19 3 | 18 7 |
| 2 39 | 24 57 | 1 6 | 17 44 | 1 29 | 19 24 | 18 57 |
| 2 37 | 25 2 | 1 10 | 16 48 | 0 56 | 19 31 | 18 48 |
| 2 34 | 25 7 | 1 13 | 15 35 | 0 23 | 19 29 | 18 38 |
| 2 32 | 25 13 | 1 17 | 14 26 | 0 8 7 | 19 17 | 18 29 |
| 2 30 | 25 17 | 1 20 | 13 10 | 0 34 | 18 52 | 18 19 |
| 2 28 | 25 21 | 1 22 | 11 53 | 0 59 | 18 16 | 18 10 |
| 2 26 | 25 25 | 1 24 | 10 32 | 1 20 | 17 29 | 18 0 |

| h | Long. | Long. | Long. | Long. | Long. | Mutual
Aspta. | Lunar Aspects. |
|-------|-------|-------|-------|---------|-------|------------------|----------------|
| ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | |
| 5 27 | 2 43 | 10 27 | 2 28 | 25 7 8 | | | |
| 5 34 | 2 55 | 10 40 | 3 44 | 24 11 | | | |
| 5 41 | 3 7 | 10 53 | 4 59 | 24 37 | | | |
| 5 48 | 3 19 | 11 7 | 6 14 | 24 D 25 | | | |
| 5 55 | 3 31 | 11 21 | 7 29 | 24 29 | | | |
| 6 2 | 3 43 | 11 35 | 8 44 | 24 37 | | | |
| 6 10 | 3 54 | 11 50 | 9 59 | 24 49 | | | |
| 6 17 | 4 6 | 12 5 | 11 15 | 25 8 | ☉ * ♄ | | |
| 6 24 | 4 17 | 12 21 | 12 30 | 25 35 | ♀ Δ ♂ | | |
| 6 31 | 4 29 | 12 37 | 13 45 | 26 9 | | | |
| 6 38 | 4 40 | 12 54 | 15 0 | 26 47 | | | |
| 6 45 | 4 51 | 13 12 | 16 15 | 27 28 | | | |
| 6 52 | 5 2 | 13 31 | 17 30 | 28 13 | | | |
| 6 59 | 5 13 | 13 50 | 18 45 | 29 2 | ♀ * ♄ | | |
| 7 6 | 5 24 | 14 9 | 20 0 | 29 54 | | | |
| 7 14 | 5 35 | 14 28 | 21 15 | 0 50 | | | |
| 7 20 | 5 46 | 14 47 | 22 30 | 1 49 | | | |
| 7 28 | 5 57 | 15 7 | 23 45 | 2 50 | | | |
| 7 36 | 6 7 | 15 27 | 25 0 | 3 53 | | | |
| 7 43 | 6 18 | 15 48 | 26 15 | 4 59 | | | |
| 7 50 | 6 28 | 16 9 | 27 30 | 6 7 | | | |
| 7 58 | 6 39 | 16 30 | 28 45 | 7 17 | | | |
| 8 6 | 6 49 | 16 52 | 0 0 | 8 29 | | | |
| 8 12 | 6 59 | 17 14 | 1 15 | 9 43 | | | |
| 8 20 | 7 9 | 17 36 | 2 30 | 10 59 | | | |
| 8 27 | 7 19 | 17 59 | 3 45 | 12 17 | ☉ * ♄ | | |
| 8 34 | 7 29 | 18 22 | 5 0 | 13 36 | ☉ ♂ ♄ | | |
| 8 41 | 7 39 | 18 45 | 6 15 | 14 56 | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 S 3 | 23 S 8 | 1 S 39 | 9 S 48 | 0 N 13 | 23 S 1 |
| 4 | 16 | 9 | 0 3 | 23 9 | 1 39 | 9 40 | 0 13 | 23 0 |
| 7 | 16 | 8 | 0 3 | 23 9 | 1 39 | 9 32 | 0 13 | 22 58 |
| 10 | 16 | 8 | 0 3 | 23 9 | 1 39 | 9 24 | 0 13 | 22 56 |
| 13 | 16 | 7 | 0 3 | 23 9 | 1 39 | 9 15 | 0 12 | 22 55 |
| 16 | 16 | 6 | 0 3 | 23 9 | 1 39 | 9 7 | 0 12 | 22 54 |
| 19 | 16 | 5 | 0 3 | 23 9 | 1 40 | 8 59 | 0 12 | 22 52 |
| 22 | 16 | 4 | 0 3 | 23 9 | 1 40 | 8 51 | 0 12 | 22 50 |
| 25 | 16 | 3 | 0 3 | 23 9 | 1 41 | 8 44 | 0 12 | 22 49 |
| 28 | 16 | 3 | 0 3 | 23 10 | 1 41 | 8 36 | 0 12 | 22 48 |
| 31 | 16 | 2 | 0 3 | 23 10 | 1 41 | 8 28 | 0 12 | 22 46 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 22 34 47 | 10 × 21 42 | 7 S 41 | 29 † 45 | 3 S 51 | 27 S 18 | 19 † 54 |
| 2 | M | 22 38 43 | 11 21 50 | 7 19 | 13 w 47 | 4 32 | 27 15 | 19 55 |
| 3 | Tu | 22 42 40 | 12 21 56 | 6 56 | 27 45 | 4 58 | 25 29 | 19 56 |
| 4 | W | 22 47 36 | 13 22 0 | 6 33 | 11 m 36 | 5 5 | 22 12 | 19 57 |
| 5 | Th | 22 50 33 | 14 22 3 | 6 10 | 25 17 | 4 55 | 17 43 | 19 58 |
| 6 | F | 22 54 29 | 15 22 4 | 5 46 | 8 × 44 | 4 28 | 12 26 | 19 59 |
| 7 | S | 22 58 26 | 16 22 3 | 5 23 | 21 56 | 3 47 | 6 42 | 20 0 |
| 8 | S | 23 2 22 | 17 22 0 | 5 0 | 4 r 49 | 2 56 | 0 47 | 20 1 |
| 9 | M | 23 6 19 | 18 21 55 | 4 36 | 17 26 | 1 57 | 5 N 3 | 20 2 |
| 10 | Tu | 23 10 16 | 19 21 48 | 4 13 | 29 45 | 0 54 | 10 34 | 20 3 |
| 11 | W | 23 14 12 | 20 21 39 | 3 49 | 11 s 51 | 0 N 11 | 15 35 | 20 4 |
| 12 | Th | 23 18 9 | 21 21 27 | 3 26 | 23 46 | 1 15 | 19 57 | 20 5 |
| 13 | F | 23 22 5 | 22 21 14 | 3 2 | 5 † 36 | 2 15 | 23 29 | 20 6 |
| 14 | S | 23 26 2 | 23 20 58 | 2 39 | 17 25 | 3 9 | 26 1 | 20 7 |
| 15 | S | 23 29 58 | 24 20 39 | 2 15 | 29 18 | 3 56 | 27 24 | 20 8 |
| 16 | M | 23 33 55 | 25 20 19 | 1 51 | 11 ☾ 20 | 4 33 | 27 30 | 20 8 |
| 17 | Tu | 23 37 51 | 26 19 56 | 1 28 | 23 37 | 4 58 | 26 17 | 20 9 |
| 18 | W | 23 41 48 | 27 19 30 | 1 4 | 6 ☉ 13 | 5 9 | 23 43 | 20 9 |
| 19 | Th | 23 45 45 | 28 19 3 | 0 40 | 19 10 | 5 5 | 19 55 | 20 9 |
| 20 | F | 23 49 41 | 29 18 33 | 0 16 | 2 m 29 | 4 45 | 15 2 | 20 9 |
| 21 | S | 23 53 38 | 0 r 18 1 | 0 N 7 | 16 10 | 4 8 | 9 16 | 20 9 |
| 22 | S | 23 57 34 | 1 17 27 | 0 31 | 0 ☾ 11 | 3 16 | 2 55 | 20 10 |
| 23 | M | 0 1 31 | 2 16 51 | 0 54 | 14 27 | 2 10 | 3 S 42 | 20 10 |
| 24 | Tu | 0 5 27 | 3 16 12 | 1 18 | 28 52 | 0 56 | 10 13 | 20 10 |
| 25 | W | 0 9 24 | 4 15 32 | 1 42 | 13 m 22 | 0 S 23 | 16 14 | 20 10 |
| 26 | Th | 0 13 20 | 5 14 50 | 2 5 | 27 51 | 1 41 | 21 20 | 20 10 |
| 27 | F | 0 17 17 | 6 14 6 | 2 29 | 12 † 15 | 2 51 | 25 7 | 20 10 |
| 28 | S | 0 21 13 | 7 13 21 | 2 52 | 26 30 | 3 51 | 27 16 | 20 9 |
| 29 | S | 0 25 10 | 8 12 34 | 3 16 | 10 w 35 | 4 35 | 27 37 | 20 9 |
| 30 | M | 0 29 7 | 9 11 45 | 3 39 | 24 29 | 5 3 | 26 12 | 20 9 |
| 31 | Tu | 0 33 3 | 10 10 55 | 4 2 | 8 m 10 | 5 13 | 23 17 | 20 9 |

MARCH XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's |
|------------|------------|------------|------------|------------|------------|------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | Node. |
| ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 2 N 25 | 25 N 26 | 1 S 25 | 10 S 4 | 1 S 26 | 17 S 20 | 11 8 58 |
| 2 23 | 25 29 | 1 26 | 8 39 | 1 43 | 16 17 | 11 48 |
| 2 21 | 25 33 | 1 26 | 7 14 | 1 57 | 15 3 | 11 38 |
| 2 19 | 25 35 | 1 26 | 5 44 | 2 7 | 13 37 | 11 29 |
| 2 17 | 25 37 | 1 25 | 4 17 | 2 13 | 11 59 | 11 19 |
| 2 15 | 25 38 | 1 24 | 2 46 | 2 15 | 10 10 | 11 10 |
| 2 13 | 25 39 | 1 22 | 1 17 | 2 12 | 8 8 | 11 0 |
| 2 11 | 25 38 | 1 20 | 0 N 14 | 2 7 | 5 59 | 10 51 |
| 2 9 | 25 37 | 1 17 | 1 46 | 1 57 | 3 38 | 10 41 |
| 2 7 | 25 34 | 1 14 | 3 50 | 1 42 | 1 7 | 10 32 |
| 2 5 | 25 30 | 1 10 | 5 17 | 1 22 | 1 N 32 | 10 22 |

| h | μ | ♂ | ♀ | ♀ | Mutual | | | | |
|--------|--------|---------|--------|---------|----------|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Aspta. © | | | | |
| ° | ' | ° | ' | ° | ' | | | | |
| 8 x 49 | 7 w 48 | 19 11 8 | 7 x 30 | 16 m 18 | ♀ * 4 | | | | |
| 8 56 | 7 58 | 19 32 | 8 45 | 17 41 | ♀ ♂ 2 | * | ♂ | | |
| 9 3 | 8 7 | 19 57 | 10 0 | 19 6 | ♀ * 1 | | | | |
| 9 11 | 8 16 | 20 21 | 11 15 | 20 32 | ♀ Δ 8 | | | | |
| 9 18 | 8 25 | 20 46 | 12 30 | 21 59 | ♂ ♂ 1 | * | | Δ | ♂ |
| 9 25 | 8 34 | 21 10 | 13 45 | 23 27 | | | | | ♂ |
| 9 33 | 8 43 | 21 35 | 15 0 | 24 5 | | | | | |
| 9 40 | 8 52 | 22 0 | 16 15 | 26 2 | | | | | |
| 9 47 | 9 0 | 22 26 | 17 30 | 28 1 | | | | | |
| 9 55 | 9 9 | 22 52 | 18 45 | 29 3 | | | | | |
| 10 2 | 9 17 | 23 15 | 20 0 | 1 x 9 | ⊙ □ 1 | | * | Δ | |
| 10 9 | 9 26 | 23 44 | 21 15 | 2 45 | ♀ □ 1 | | | | * |
| 10 17 | 9 34 | 24 10 | 22 29 | 4 21 | ⊙ ♂ 2 | | □ | | □ |
| 10 24 | 9 42 | 24 37 | 23 44 | 5 59 | | ♂ | | | |
| 10 31 | 9 50 | 25 4 | 24 59 | 7 38 | ♀ □ 8 | □ | | ♂ | □ |
| 10 38 | 9 57 | 25 31 | 25 12 | 9 20 | | | | | Δ |
| 10 45 | 10 5 | | | | | | | | Δ |
| 10 52 | 10 13 | | | | | | | | |
| 11 0 | 10 20 | | | | | | | | |
| 11 7 | 10 27 | | | | | | | | |
| 11 14 | 10 34 | | | | | | | | ♂ |
| 11 21 | 10 41 | | | | | | | | ♂ |
| 11 28 | 10 48 | | | | | | | | |
| 11 35 | 10 55 | | | | | | | | |
| 11 42 | 11 1 | | | | | | | | |
| 11 49 | 11 7 | | | | | | | | Δ |
| 11 56 | 11 12 | | | | | | | | Δ |
| 12 3 | 11 18 | | | | | | | | □ |
| 12 10 | 11 23 | | | | | | | | |
| 12 17 | 11 29 | | | | | | | | 1 |
| 12 24 | 11 34 | | | | | | | | * |

APRIL XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 4 | 23 S 10 | 1 S 41 | 8 S 26 | 0 N 11 | 22 S 46 |
| 4 | 16 | 0 | 0 4 | 23 10 | 1 41 | 8 19 | 0 11 | 22 45 |
| 7 | 15 | 59 | 0 4 | 23 10 | 1 42 | 8 12 | 0 11 | 22 44 |
| 10 | 15 | 58 | 0 4 | 23 9 | 1 42 | 8 5 | 0 11 | 22 43 |
| 13 | 15 | 58 | 0 4 | 23 9 | 1 43 | 7 58 | 0 10 | 22 43 |
| 16 | 15 | 57 | 0 4 | 23 9 | 1 43 | 7 51 | 0 10 | 22 42 |
| 19 | 15 | 56 | 0 4 | 23 9 | 1 44 | 7 45 | 0 10 | 22 42 |
| 22 | 15 | 56 | 0 4 | 23 8 | 1 44 | 7 39 | 0 10 | 22 41 |
| 25 | 15 | 55 | 0 4 | 23 8 | 1 45 | 7 33 | 0 9 | 22 41 |
| 28 | 15 | 54 | 0 4 | 23 8 | 1 45 | 7 27 | 0 9 | 22 41 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 0 37 0 | 11 10 8 | 4 N 25 | 21 39 | 5 S 6 | 19 S 7 | 20 1 8 |
| 2 | Th | 0 40 56 | 12 9 8 | 4 48 | 4 54 | 4 42 | 14 5 | 20 1 8 |
| 3 | F | 0 44 53 | 13 8 13 | 5 12 | 17 56 | 4 4 | 8 31 | 20 7 |
| 4 | S | 0 48 49 | 14 7 15 | 5 34 | 0 44 | 3 14 | 2 40 | 20 7 |
| 5 | S | 0 52 46 | 15 6 15 | 5 57 | 13 19 | 2 16 | 3 N 11 | 20 6 |
| 6 | M | 0 56 42 | 16 5 13 | 6 20 | 25 41 | 1 11 | 8 50 | 20 6 |
| 7 | Tu | 1 0 39 | 17 4 10 | 6 43 | 7 51 | 0 5 | 14 4 | 20 5 |
| 8 | W | 1 4 36 | 18 3 4 | 7 5 | 19 52 | 1 N 1 | 18 42 | 20 4 |
| 9 | Th | 1 8 32 | 19 1 56 | 7 28 | 1 45 | 2 4 | 22 33 | 20 4 |
| 10 | F | 1 12 29 | 20 0 46 | 7 50 | 13 34 | 3 1 | 25 26 | 20 3 |
| 11 | S | 1 16 25 | 20 59 34 | 8 12 | 25 23 | 3 50 | 27 13 | 20 2 |
| 12 | S | 1 20 22 | 21 58 19 | 8 34 | 7 15 | 4 30 | 27 46 | 20 1 |
| 13 | M | 1 24 18 | 22 57 1 | 8 56 | 19 17 | 4 58 | 27 0 | 20 0 |
| 14 | Tu | 1 28 15 | 23 55 42 | 9 18 | 1 33 | 5 14 | 24 56 | 19 59 |
| 15 | W | 1 32 11 | 24 54 21 | 9 39 | 14 6 | 5 15 | 21 38 | 19 58 |
| 16 | Th | 1 36 8 | 25 52 57 | 10 1 | 27 1 | 5 1 | 17 14 | 19 57 |
| 17 | F | 1 40 5 | 26 51 31 | 10 22 | 10 21 | 4 30 | 11 52 | 19 56 |
| 18 | S | 1 44 1 | 27 50 3 | 10 43 | 24 6 | 3 48 | 5 45 | 19 55 |
| 19 | S | 1 47 58 | 28 48 33 | 11 4 | 8 16 | 2 41 | 0 S 48 | 19 54 |
| 20 | M | 1 51 54 | 29 47 0 | 11 24 | 22 47 | 1 27 | 7 31 | 19 52 |
| 21 | Tu | 1 55 51 | 0 45 26 | 11 45 | 7 33 | 0 7 | 13 56 | 19 51 |
| 22 | W | 1 59 47 | 1 43 50 | 12 5 | 22 27 | 1 S 15 | 19 37 | 19 49 |
| 23 | Th | 2 3 44 | 2 42 12 | 12 25 | 7 22 | 2 32 | 24 4 | 19 48 |
| 24 | F | 2 7 40 | 3 40 33 | 12 45 | 22 10 | 3 38 | 26 52 | 19 46 |
| 25 | S | 2 11 37 | 4 38 52 | 13 5 | 6 44 | 4 29 | 27 47 | 19 45 |
| 26 | S | 2 15 33 | 5 37 10 | 13 25 | 21 0 | 5 2 | 26 48 | 19 43 |
| 27 | M | 2 19 29 | 6 35 26 | 13 44 | 4 57 | 5 17 | 24 10 | 19 42 |
| 28 | Tu | 2 23 25 | 7 33 41 | 14 3 | 18 34 | 5 18 | 20 14 | 19 40 |
| 29 | W | 2 27 21 | 8 31 54 | 14 22 | 1 51 | 4 52 | 15 22 | 19 39 |
| 30 | Th | 2 31 17 | 9 30 6 | 14 40 | 14 50 | 4 17 | 9 55 | 19 37 |

APRIL XXX DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|-------|---------|--------|---------|----------|---------|-----------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 N 4 | 25 N 30 | 18 8 | 5 N 13 | 18 15 | 2 N 26 | 10 19 |
| 2 2 | 25 25 | 1 3 | 6 46 | 0 49 | 5 14 | 10 9 |
| 2 0 | 25 20 | 0 59 | 8 15 | 0 20 | 8 4 | 10 0 |
| 1 58 | 25 15 | 0 54 | 9 40 | 0 N 13 | 10 52 | 9 50 |
| 1 56 | 25 5 | 0 47 | 11 5 | 0 46 | 13 32 | 9 41 |
| 1 54 | 24 55 | 0 41 | 12 26 | 1 18 | 15 58 | 9 31 |
| 1 53 | 24 46 | 0 34 | 13 46 | 1 48 | 18 8 | 9 22 |
| 1 51 | 24 38 | 0 27 | 15 1 | 2 13 | 19 55 | 9 12 |
| 1 49 | 24 28 | 0 21 | 16 15 | 2 29 | 21 20 | 9 3 |
| 1 47 | 24 8 | 0 14 | 17 15 | 2 39 | 22 21 | 8 53 |

| h | | μ | | ♂ | | ♀ | | ♂ | | ♀ | | Mutual Aspects. | | Lunar Aspects. | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--------|----------------|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | Aspts. | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 12 30 | 11 40 | 8 7 | 16 6 | 9 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 12 37 | 11 45 | 3 37 | 17 20 | 11 2 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 12 41 | 11 50 | 4 7 | 18 35 | 13 6 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 12 50 | 11 55 | 4 38 | 19 49 | 15 11 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 12 57 | 12 0 | 5 6 | 21 3 | 17 16 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 4 | 12 5 | 5 35 | 22 18 | 19 21 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 10 | 12 10 | 6 9 | 23 32 | 21 26 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 17 | 12 14 | 6 39 | 24 46 | 23 32 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 23 | 12 18 | 7 10 | 26 1 | 25 37 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 30 | 12 21 | 7 41 | 27 15 | 27 42 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 36 | 12 25 | 8 12 | 28 29 | 29 46 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 42 | 12 29 | 8 43 | 29 44 | 31 48 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 48 | 12 32 | 9 14 | 30 58 | 3 49 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 13 54 | 12 35 | 9 45 | 32 12 | 5 49 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 0 | 12 38 | 10 17 | 33 26 | 7 47 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 6 | 12 40 | 10 48 | 34 4 | 9 43 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 12 | 12 43 | 11 20 | 35 5 | 11 36 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 18 | 12 46 | 11 51 | 36 7 | 13 26 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 24 | 12 48 | 12 23 | 37 8 | 15 12 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 30 | 12 50 | 12 55 | 38 9 | 16 55 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 36 | 12 51 | 13 27 | 39 10 | 18 34 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 42 | 12 53 | 13 59 | 40 12 | 20 9 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 48 | 12 54 | 14 31 | 41 13 | 21 40 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 54 | 12 56 | 15 3 | 42 14 | 23 7 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 14 59 | 12 57 | 15 36 | 43 15 | 24 28 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 15 5 | 12 58 | 16 8 | 44 17 | 25 47 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 15 10 | 12 58 | 16 41 | 45 18 | 27 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 15 16 | 12 59 | 17 13 | 46 19 | 28 9 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 15 21 | 12 59 | 17 46 | 47 20 | 29 13 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 15 26 | 12 0 | 18 18 | 48 21 | 30 56 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | ☉ ☿ | ☉ ☿ | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|-----------------|---|---|---|---|-----|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | |
| 1 | 1 N45 | 23 N53 | 0 S 6 | 18 N29 | 2 N40 | 23 N 1 | 8 44 | | | | | |
| 4 | 1 44 | 23 36 | 0 N 2 | 19 28 | 2 32 | 23 19 | 8 34 | | | | | |
| 7 | 1 42 | 23 19 | 0 9 | 20 25 | 2 13 | 23 18 | 8 25 | | | | | |
| 10 | 1 40 | 23 0 | 0 16 | 21 14 | 1 44 | 22 56 | 8 15 | | | | | |
| 13 | 1 38 | 22 41 | 0 24 | 22 2 | 1 7 | 22 19 | 8 6 | | | | | |
| 16 | 1 36 | 22 21 | 0 35 | 22 42 | 0 21 | 21 26 | 7 56 | | | | | |
| 19 | 1 35 | 21 57 | 0 38 | 23 17 | 0 S 29 | 20 21 | 7 47 | | | | | |
| 22 | 1 33 | 21 35 | 0 45 | 23 44 | 1 22 | 19 10 | 7 37 | | | | | |
| 25 | 1 31 | 21 9 | 0 52 | 24 8 | 2 12 | 18 1 | 7 27 | | | | | |
| 28 | 1 29 | 20 43 | 0 58 | 24 23 | 2 55 | 17 0 | 7 18 | | | | | |
| 31 | 1 27 | 20 14 | 1 4 | 24 37 | 3 29 | 16 12 | 7 8 | | | | | |
| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | |
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♊ | ♍ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 15 31 | 13 0 | 18 51 | 23 8 | 1 6 | | | | | | | * * |
| 2 | 15 36 | 13 0 | 19 24 | 24 23 | 1 58 | | | | □ | | | |
| 3 | 15 41 | 12 59 | 19 57 | 25 37 | 2 42 | | Δ | | | □ | | |
| 4 | 15 46 | 12 58 | 20 30 | 26 50 | 3 18 | ☉ Δ ♄ | | | | | | |
| 5 | 15 51 | 12 57 | 21 3 | 28 4 | 3 50 | | ♈ | | * | Δ | * | |
| 6 | 15 56 | 12 56 | 21 36 | 29 18 | 4 19 | | | | | | | ♈ |
| 7 | 16 1 | 12 55 | 22 9 | 0 31 | 4 45 | ☉ * ♈ | | | | | | ♈ |
| 8 | 16 6 | 12 54 | 22 32 | 1 45 | 5 5 | | | ♈ | □ | | | |
| 9 | 16 11 | 12 52 | 23 6 | 2 59 | 5 18 | | | | | | | |
| 10 | 16 15 | 12 50 | 23 39 | 4 12 | 5 25 | | * | | Δ | ♈ | | |
| 11 | 16 20 | 12 48 | 24 13 | 5 26 | 5 28 | ♀ ♂ ♀ | | | | | ♈ | |
| 12 | 16 25 | 12 46 | 25 6 | 6 40 | 5 26 | | □ | | | | | * * |
| 13 | 16 29 | 12 44 | 25 30 | 7 53 | 5 20 | | | Δ | | | | |
| 14 | 16 34 | 12 42 | 26 5 | 9 7 | 5 10 | | | | | | □ | □ |
| 15 | 16 38 | 12 39 | 26 37 | 10 20 | 4 55 | | Δ | □ | ♈ | Δ | | |
| 16 | 16 42 | 12 36 | 27 11 | 11 34 | 4 35 | | | | | | * | Δ |
| 17 | 16 46 | 12 33 | 27 45 | 12 47 | 4 12 | | | * | | □ | | Δ |
| 18 | 16 50 | 12 30 | 28 19 | 14 1 | 3 46 | | | | | | □ | |
| 19 | 16 54 | 12 27 | 28 53 | 15 14 | 3 17 | | | | Δ | * | | |
| 20 | 16 58 | 12 23 | 29 27 | 16 27 | 2 46 | ♀ □ ♈ | ♈ | | | | Δ | ♈ |
| 21 | 17 1 | 12 19 | 0 1 | 17 41 | 2 14 | ☉ ♂ ♀ | | ♈ | □ | | | ♈ |
| 22 | 17 5 | 12 15 | 0 36 | 18 54 | 1 40 | ♀ ♂ ☿ | | | | | | |
| 23 | 17 8 | 12 11 | 1 10 | 20 7 | 1 5 | ☉ * ♂ | | | * | ♈ | | |
| 24 | 17 12 | 12 7 | 1 44 | 21 21 | 0 31 | ♀ * ♂ | Δ | | | | ♈ | Δ |
| 25 | 17 15 | 12 3 | 2 19 | 22 34 | 29 58 | | | * | | | | |
| 26 | 17 19 | 11 58 | 2 53 | 23 48 | 29 26 | | □ | | | | | Δ □ |
| 27 | 17 22 | 11 53 | 3 28 | 25 1 | 28 56 | | | | ♈ | * | | |
| 28 | 17 25 | 11 48 | 4 2 | 26 14 | 28 28 | | | □ | | | | □ * |
| 29 | 17 28 | 11 43 | 4 37 | 27 27 | 28 3 | | * | | | □ | Δ | |
| 30 | 17 31 | 11 38 | 5 11 | 28 40 | 27 41 | | | Δ | | | | |
| 31 | 17 34 | 11 33 | 5 46 | 29 53 | 27 22 | | | | | | □ | * |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S | 4 | 23 S | 2 | 0 N | 5 |
| 4 | 15 | 48 | 0 | 4 | 23 | 2 | 0 | 5 |
| 7 | 15 | 47 | 0 | 4 | 23 | 1 | 0 | 4 |
| 10 | 15 | 47 | 0 | 4 | 23 | 0 | 0 | 4 |
| 18 | 15 | 46 | 0 | 4 | 23 | 0 | 0 | 3 |
| 16 | 15 | 46 | 0 | 4 | 22 | 59 | 0 | 3 |
| 19 | 15 | 46 | 0 | 4 | 22 | 59 | 0 | 2 |
| 22 | 15 | 46 | 0 | 4 | 22 | 58 | 0 | 2 |
| 25 | 15 | 46 | 0 | 4 | 22 | 58 | 0 | 2 |
| 28 | 15 | 45 | 0 | 4 | 22 | 57 | 0 | 2 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 4 37 26 | 10 11 19 | 5 22 N | 1 13 28 | 0 N 27 | 16 N 19 | 18 1 29 |
| 2 | Tu | 4 41 23 | 11 16 33 | 22 9 25 | 20 1 30 | 20 35 | 18 26 | 18 26 |
| 3 | W | 4 45 19 | 12 14 12 | 22 17 7 | 10 2 30 | 23 59 | 18 24 | 18 24 |
| 4 | Th | 4 49 16 | 13 11 27 | 22 24 18 | 58 3 22 | 26 23 | 18 22 | 18 22 |
| 5 | F | 4 53 12 | 14 8 52 | 22 31 0 | 49 4 7 | 27 34 | 18 19 | 18 19 |
| 6 | S | 4 57 9 | 15 6 17 | 22 38 12 | 42 4 40 | 27 30 | 18 17 | 18 17 |
| 7 | S | 5 1 5 | 16 3 41 | 22 44 24 | 42 5 26 | 9 18 | 18 15 | 18 15 |
| 8 | M | 5 5 2 | 17 1 3 | 22 50 6 | 49 5 10 | 23 35 | 18 12 | 18 12 |
| 9 | Tu | 5 8 59 | 17 58 25 | 22 55 19 | 6 5 4 | 19 55 | 18 10 | 18 10 |
| 10 | W | 5 12 55 | 18 55 46 | 23 0 1 | 37 4 44 | 15 20 | 18 7 | 18 7 |
| 11 | Th | 5 16 52 | 19 53 6 | 23 5 14 | 25 4 10 | 9 58 | 18 5 | 18 5 |
| 12 | F | 5 20 48 | 20 50 24 | 23 9 27 | 34 3 21 | 4 18 | 18 2 | 18 2 |
| 13 | S | 5 24 45 | 21 47 42 | 23 13 11 | 5 2 20 | 2 15 | 18 0 | 18 0 |
| 14 | S | 5 28 41 | 22 44 59 | 23 16 25 | 2 1 9 | 8 38 | 17 58 | 17 58 |
| 15 | M | 5 32 38 | 23 42 15 | 23 19 9 | 25 0 S | 8 14 | 17 55 | 17 55 |
| 16 | Tu | 5 36 34 | 24 39 30 | 23 21 24 | 11 1 27 | 20 15 | 17 52 | 17 52 |
| 17 | W | 5 40 31 | 25 36 44 | 23 24 9 | 15 2 41 | 24 31 | 17 50 | 17 50 |
| 18 | Th | 5 44 27 | 26 33 58 | 23 25 24 | 30 3 44 | 27 5 | 17 47 | 17 47 |
| 19 | F | 5 48 24 | 27 31 11 | 23 27 9 | 44 4 32 | 27 37 | 17 45 | 17 45 |
| 20 | S | 5 52 21 | 28 28 24 | 23 27 24 | 48 4 59 | 26 6 | 17 43 | 17 43 |
| 21 | S | 5 56 17 | 29 25 37 | 23 28 9 | 32 5 7 | 22 48 | 17 40 | 17 40 |
| 22 | M | 6 0 14 | 0 22 50 | 23 28 23 | 50 4 54 | 18 13 | 17 38 | 17 38 |
| 23 | Tu | 6 4 10 | 1 20 3 | 23 28 7 | 38 4 25 | 12 49 | 17 35 | 17 35 |
| 24 | W | 6 8 7 | 2 17 16 | 23 27 20 | 58 3 42 | 6 59 | 17 32 | 17 32 |
| 25 | Th | 6 12 4 | 3 14 28 | 23 26 8 | 51 2 49 | 1 4 | 17 30 | 17 30 |
| 26 | F | 6 16 1 | 4 11 41 | 23 24 16 | 21 1 50 | 4 N 45 | 17 27 | 17 27 |
| 27 | S | 6 19 58 | 5 8 55 | 23 22 28 | 34 0 46 | 10 15 | 17 25 | 17 25 |
| 28 | S | 6 23 55 | 6 6 8 | 23 19 10 | 35 0 N | 18 15 | 17 23 | 17 23 |
| 29 | M | 6 27 52 | 7 3 21 | 23 16 22 | 27 1 21 | 19 42 | 17 21 | 17 21 |
| 30 | Tu | 6 31 49 | 8 0 34 | 23 13 4 | 15 2 19 | 23 18 | 17 19 | 17 19 |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 S 5 | 22 S 56 | 2 S 1 | 6 S 30 | 0 N 1 | 23 S 13 |
| 4 | 15 | 45 | 0 5 | 22 56 | 2 1 | 6 31 | 0 1 | 23 15 |
| 7 | 15 | 45 | 0 5 | 22 55 | 2 2 | 6 32 | 0 0 | 23 16 |
| 10 | 15 | 46 | 0 5 | 22 54 | 2 3 | 6 34 | 0 0 | 23 17 |
| 13 | 15 | 46 | 0 5 | 22 54 | 2 4 | 6 36 | 0 S 1 | 23 18 |
| 16 | 15 | 46 | 0 5 | 22 53 | 2 4 | 6 39 | 0 1 | 23 20 |
| 19 | 15 | 46 | 0 5 | 22 53 | 2 5 | 6 42 | 0 2 | 23 22 |
| 22 | 15 | 46 | 0 5 | 22 52 | 2 6 | 6 45 | 0 2 | 23 24 |
| 25 | 15 | 47 | 0 5 | 22 52 | 2 7 | 6 48 | 0 3 | 23 25 |
| 28 | 15 | 47 | 0 5 | 22 52 | 2 7 | 6 52 | 0 3 | 23 26 |
| 31 | 15 | 47 | 0 5 | 22 52 | 2 7 | 6 56 | 0 3 | 23 27 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 6 35 46 | 8 57 48 | 23 N 10 | 16 ♄ 3 | 3 N 12 | 25 N 55 | 17 ♄ 18 |
| 2 | Th | 6 39 43 | 9 55 23 | 23 6 | 27 54 | 3 56 | 27 23 | 17 ♄ 16 |
| 3 | F | 6 43 39 | 10 52 15 | 23 1 | 9 49 | 4 30 | 27 36 | 17 13 |
| 4 | S | 6 47 36 | 11 49 29 | 23 56 | 21 50 | 4 53 | 26 30 | 17 10 |
| 5 | S | 6 51 32 | 12 46 43 | 23 51 | 3 58 | 5 24 | 10 | 17 8 |

| | | | | | | | | |
|----|----|---------|---------|-------|-------|------|-------|-------|
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | S | 8 14 20 | 2 49 0 | 19 33 | 19 12 | 1 16 | 18 46 | 16 30 |
| 27 | M | 8 11 17 | 3 46 23 | 19 20 | 1 4 | 2 15 | 22 36 | 16 29 |
| 28 | Th | 8 22 18 | 4 43 44 | 19 6 | 12 52 | 3 8 | 25 29 | 16 27 |
| 29 | W | 8 26 10 | 5 41 9 | 18 52 | 24 42 | 3 52 | 27 13 | 16 26 |
| 30 | Th | 8 30 6 | 6 38 34 | 18 38 | 6 36 | 4 26 | 27 44 | 16 25 |
| 31 | F | 8 34 8 | 7 36 0 | 18 23 | 18 33 | 4 49 | 26 57 | 16 24 |

| 1818.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | 15 | | |
|-----------------|-----------|-----------------------------------|-----------|-----------|-----------|-----------|------------------------|---|---|---|---|----|---|---|
| JULY XXXI DAYS. | | | | | | | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 1 N 11 | 14 N 37 | 1 N 43 | 20 N 5 | 0 S 58 | 22 N 16 | 5 30 | | | | | | | |
| 4 | 1 9 | 14 0 | 1 43 | 18 48 | 0 22 | 23 5 | 5 20 | | | | | | | |
| 7 | 1 7 | 13 20 | 1 42 | 18 4 | 0 N 13 | 23 39 | 5 11 | | | | | | | |
| 10 | 1 6 | 12 40 | 1 41 | 16 36 | 0 44 | 23 52 | 5 1 | | | | | | | |
| 13 | 1 4 | 12 0 | 1 39 | 15 47 | 1 10 | 23 40 | 4 52 | | | | | | | |
| 16 | 1 2 | 11 21 | 1 36 | 14 29 | 1 29 | 23 4 | 4 42 | | | | | | | |
| 19 | 1 1 | 10 37 | 1 33 | 13 16 | 1 42 | 22 6 | 4 33 | | | | | | | |
| 22 | 0 59 | 9 55 | 1 29 | 11 55 | 1 47 | 20 47 | 4 23 | | | | | | | |
| 25 | 0 58 | 9 12 | 1 24 | 10 32 | 1 47 | 19 13 | 4 14 | | | | | | | |
| 28 | 0 56 | 8 30 | 1 17 | 9 6 | 1 40 | 17 27 | 4 4 | | | | | | | |
| 31 | 0 55 | 7 45 | 1 10 | 7 43 | 1 29 | 15 32 | 3 55 | | | | | | | |
| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual, Lunar Aspects. | | | | | | | |
| | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | | |
| 1 | 18 16 | 7 58 | 24 5 | 7 28 | 21 58 | | | ♈ | ☐ | | | | | |
| 2 | 18 16 | 7 50 | 24 41 | 8 41 | 23 43 | | | | | | * | | | ♌ |
| 3 | 18 15 | 7 43 | 25 17 | 9 53 | 25 33 | ♌ * ♈ | ♌ | | | ♈ | | | | |
| 4 | 18 15 | 7 35 | 25 54 | 11 5 | 27 28 | | | | Δ | | | | | |
| 5 | 18 14 | 7 28 | 26 30 | 12 17 | 29 25 | | | | | | | | | |
| 6 | 18 14 | 7 20 | 27 6 | 13 29 | 1 23 | | | Δ | | | | | ♌ | ♌ |
| 7 | 18 13 | 7 12 | 27 43 | 14 41 | 3 21 | | | | | | | ♌ | | * |
| 8 | 18 12 | 7 4 | 28 19 | 15 53 | 5 22 | ♌ ♈ ♈ | * | ☐ | | Δ | | | ♌ | * |
| 9 | 18 11 | 6 57 | 28 56 | 17 5 | 7 26 | ♀ Δ ♈ | | | ♈ | | | | | |
| 10 | 18 10 | 6 49 | 29 32 | 18 17 | 9 33 | | | | | ☐ | | | | ☐ |
| 11 | 18 9 | 6 42 | 0 9 | 19 29 | 11 40 | ☉ Δ ♈ | ☐ | * | | | | | * | |
| 12 | 18 8 | 6 37 | 0 45 | 20 41 | 13 48 | | | | | | * | * | * | |
| 13 | 18 6 | 6 27 | 1 22 | 21 53 | 15 56 | | | Δ | | Δ | | | ☐ | Δ |
| 14 | 18 5 | 6 20 | 1 58 | 23 5 | 18 4 | ♌ Δ ♈ | | | | | | ☐ | | |
| 15 | 18 3 | 6 13 | 2 35 | 24 17 | 20 13 | | | ♌ | ☐ | | | | Δ | |
| 16 | 18 2 | 6 6 | 3 12 | 25 29 | 22 22 | | | | | | | ♌ | Δ | |
| 17 | 18 0 | 5 59 | 3 49 | 26 40 | 24 30 | ☉ ♌ ♌ | ♈ | | * | | | | | ♈ |
| 18 | 17 58 | 5 52 | 4 26 | 27 52 | 26 37 | | | | | | | | | |
| 19 | 17 56 | 5 45 | 5 3 | 29 3 | 28 44 | | | * | | | | | | |
| 20 | 17 54 | 5 38 | 5 40 | 0 15 | 0 50 | ♈ Δ ♈ | | | | | * | ♈ | ♈ | |
| 21 | 17 52 | 5 32 | 6 17 | 1 26 | 2 54 | | | | ☐ | ♌ | | | | |
| 22 | 17 50 | 5 25 | 6 54 | 2 38 | 4 56 | | | Δ | | | | ☐ | | Δ |
| 23 | 17 48 | 5 19 | 7 31 | 3 49 | 6 57 | | | | Δ | | | | | |
| 24 | 17 46 | 5 12 | 8 8 | 5 1 | 8 57 | ♀ Δ ♈ | | | | | | | | |
| 25 | 17 44 | 5 6 | 8 45 | 6 12 | 10 56 | | | ☐ | | | | Δ | Δ | ☐ |
| 26 | 17 42 | 5 0 | 9 22 | 7 23 | 12 53 | | | | | * | | | | |
| 27 | 17 39 | 4 55 | 9 59 | 8 34 | 14 48 | | | * | | | | | | |
| 28 | 17 36 | 4 49 | 10 36 | 9 45 | 16 42 | ♌ Δ ♈ | | ♈ | ☐ | | | ☐ | ☐ | * |
| 29 | 17 33 | 4 44 | 11 14 | 10 56 | 18 34 | | | | | | | | | |
| 30 | 17 30 | 4 38 | 11 51 | 12 7 | 20 25 | ♀ ♌ ♌ | | | | | ♈ | * | * | |
| 31 | 17 27 | 4 33 | 12 28 | 13 18 | 22 14 | | | | | Δ | | | * | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 8 | 5 22 35 | 2 8 | 6 57 | 0 8 | 4 23 27 |
| 4 | 15 | 47 | 0 | 5 22 51 | 2 | 8 7 2 | 0 | 4 23 28 |
| 7 | 15 | 48 | 0 | 5 22 51 | 2 | 9 7 6 | 0 | 4 23 29 |
| 10 | 15 | 48 | 0 | 5 22 50 | 2 | 9 7 11 | 0 | 4 23 30 |
| 13 | 15 | 49 | 0 | 5 22 50 | 2 | 10 7 15 | 0 | 5 23 30 |
| 16 | 15 | 49 | 0 | 5 22 50 | 2 | 10 7 20 | 0 | 5 23 31 |
| 19 | 15 | 50 | 0 | 5 22 50 | 2 | 11 7 25 | 0 | 5 23 31 |
| 22 | 15 | 50 | 0 | 5 22 50 | 2 | 11 7 30 | 0 | 6 23 32 |
| 25 | 15 | 51 | 0 | 5 22 50 | 2 | 12 7 36 | 0 | 6 23 32 |
| 28 | 15 | 51 | 0 | 5 22 50 | 2 | 12 7 42 | 0 | 6 23 33 |
| 31 | 15 | 52 | 0 | 5 22 50 | 2 | 13 7 48 | 0 | 6 23 33 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 8 37 59 | 8 23 27 | 18 N 9 | 0 24 49 | 4 N 59 | 24 N 52 | 16 23 |
| 2 | S | 8 41 56 | 9 30 55 | 17 53 | 13 10 | 4 56 | 21 36 | 16 22 |
| 3 | M | 8 45 53 | 10 28 24 | 17 38 | 25 41 | 4 38 | 17 20 | 16 21 |
| 4 | Tu | 8 49 49 | 11 25 54 | 17 22 | 8 24 | 4 6 | 12 14 | 16 20 |
| 5 | W | 8 53 46 | 12 23 25 | 17 6 | 21 17 | 3 21 | 6 33 | 16 19 |
| 6 | Th | 8 57 42 | 13 20 56 | 16 50 | 4 23 | 2 25 | 0 29 | 16 18 |
| 7 | F | 9 1 39 | 14 18 28 | 16 33 | 17 40 | 1 20 | 5 43 | 16 17 |
| 8 | S | 9 5 35 | 15 16 1 | 16 17 | 1 11 | 0 9 | 11 45 | 16 16 |
| 9 | S | 9 9 32 | 16 13 35 | 15 59 | 14 57 | 1 8 | 3 17 | 20 16 15 |
| 10 | M | 9 13 28 | 17 11 10 | 15 42 | 28 58 | 2 13 | 22 7 | 16 14 |
| 11 | Tu | 9 17 25 | 18 8 46 | 15 24 | 13 15 | 3 16 | 25 40 | 16 13 |
| 12 | W | 9 21 22 | 19 6 22 | 15 7 | 27 45 | 4 8 | 27 35 | 16 12 |
| 13 | Th | 9 25 18 | 20 4 0 | 14 49 | 12 25 | 4 43 | 27 36 | 16 11 |
| 14 | F | 9 29 15 | 21 1 38 | 14 30 | 27 8 | 5 1 | 25 40 | 16 10 |
| 15 | S | 9 33 11 | 21 59 17 | 14 12 | 11 48 | 4 58 | 22 2 | 16 10 |
| 16 | S | 9 37 8 | 22 56 58 | 13 53 | 26 15 | 4 36 | 17 6 | 16 9 |
| 17 | M | 9 41 4 | 23 54 40 | 13 34 | 10 25 | 3 58 | 11 20 | 16 9 |
| 18 | Tu | 9 45 1 | 24 52 24 | 13 15 | 24 11 | 3 7 | 5 9 | 16 8 |
| 19 | W | 9 48 57 | 25 50 9 | 12 55 | 7 32 | 2 5 | 1 N 4 | 16 8 |
| 20 | Th | 9 52 54 | 26 47 55 | 12 36 | 20 28 | 1 0 | 7 5 | 16 8 |
| 21 | F | 9 56 51 | 27 45 43 | 12 16 | 3 2 | 0 N 7 | 12 38 | 16 8 |
| 22 | S | 10 0 47 | 28 43 33 | 11 56 | 15 17 | 1 11 | 17 36 | 16 7 |
| 23 | S | 10 4 44 | 29 41 25 | 11 36 | 27 19 | 2 12 | 21 44 | 16 7 |
| 24 | M | 10 8 40 | 0 39 19 | 11 15 | 9 12 | 3 6 | 24 5 | 16 7 |
| 25 | Tu | 10 12 37 | 1 37 15 | 10 55 | 21 2 | 3 52 | 27 1 | 16 7 |
| 26 | W | 10 16 33 | 2 35 12 | 10 34 | 2 54 | 4 28 | 27 54 | 16 7 |
| 27 | Th | 10 20 29 | 3 33 11 | 10 13 | 14 52 | 4 52 | 27 28 | 16 D 7 |
| 28 | F | 10 24 25 | 4 31 12 | 9 52 | 27 0 | 5 4 | 25 45 | 16 7 |
| 29 | S | 10 28 21 | 5 29 15 | 9 31 | 9 20 | 5 2 | 22 47 | 16 8 |
| 30 | S | 10 32 17 | 6 27 19 | 9 9 | 21 54 | 4 45 | 18 43 | 16 8 |
| 31 | M | 10 36 13 | 7 25 26 | 8 48 | 4 42 | 4 14 | 18 45 | 16 8 |

AUGUST XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|---------|--------|---------|----------|---------|-----------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 0 N 64 | 7 N 28 | 1 N 9 | 7 N 10 | 1 N 25 | 14 N 52 | 3 5 51 |
| 0 53 | 6 48 | 1 2 | 5 40 | 1 8 | 13 50 | 3 41 |
| 0 51 | 5 58 | 0 59 | 4 10 | 0 49 | 10 46 | 3 32 |
| 0 49 | 5 12 | 0 44 | 2 40 | 0 26 | 8 40 | 3 22 |
| 0 47 | 4 26 | 0 35 | 1 6 | 0 2 | 6 38 | 3 13 |
| 0 45 | 3 44 | 0 25 | 0 3 27 | 0 8 24 | 4 33 | 3 3 |
| 0 44 | 2 52 | 0 15 | 3 0 | 0 52 | 2 34 | 2 54 |
| 0 43 | 2 5 | 0 4 | 3 32 | 1 20 | 0 40 | 2 44 |
| 0 41 | 1 18 | 0 8 8 | 5 5 | 1 49 | 1 8 7 | 2 35 |
| 0 39 | 0 31 | 0 21 | 6 36 | 2 17 | 2 46 | 2 25 |
| 0 37 | 0 17 | 0 34 | 8 4 | 2 45 | 4 15 | 2 16 |

| h | h | δ | ♀ | ♂ | Mutual | Lunar Aspects. | | | | | |
|-------|-------|-------|-------|---------|--------|----------------|---|---|---|---|---|
| Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ♂ | h | h | ♂ | ♀ |
| 17 24 | 4 27 | 13 26 | 14 29 | 23 2 59 | | | | | | | |
| 17 21 | 4 22 | 13 43 | 15 40 | 25 46 | | ♂ | Δ | | | | |
| 17 18 | 4 17 | 14 21 | 16 51 | 27 30 | ♀ □ h | | | | | | ♂ |
| 17 15 | 4 12 | 14 59 | 18 2 | 29 11 | ♀ ♂ h | | | Δ | | | |
| 17 12 | 4 7 | 15 36 | 19 13 | 0 51 | | □ | ♂ | | ♂ | ♂ | |
| 17 9 | 4 2 | 16 14 | 20 24 | 2 30 | ♂ □ h | | | | □ | | |
| 17 5 | 3 58 | 16 52 | 21 34 | 4 8 | ♂ ♂ h | * | * | | | | * |
| 17 2 | 3 54 | 17 29 | 22 45 | 5 44 | ♀ Δ h | | | | * | | * |
| 16 58 | 3 50 | 18 7 | 23 55 | 7 18 | ☉ Δ h | □ | | Δ | | * | * |
| 16 55 | 3 47 | 18 45 | 25 6 | 8 50 | | | | | | * | |
| 16 51 | 3 43 | 19 23 | 26 16 | 10 21 | | Δ | ♂ | □ | | □ | □ |
| 16 47 | 3 39 | 20 1 | 27 26 | 11 51 | | | | | ♂ | □ | Δ |
| 16 43 | 3 36 | 20 39 | 28 36 | 13 19 | | | * | | | | |
| 16 39 | 3 33 | 21 17 | 29 46 | 14 46 | | | | | | Δ | Δ |
| 16 35 | 3 30 | 21 55 | 0 56 | 16 11 | ♀ □ h | * | | | | | |
| 16 31 | 3 28 | 22 33 | 2 6 | 17 33 | ♀ ♂ h | ♂ | | * | | | |
| 16 27 | 3 25 | 23 11 | 3 16 | 18 54 | ♀ □ h | | □ | ♂ | | | |
| 16 23 | 3 22 | 23 49 | 4 26 | 20 13 | | | | | | ♂ | ♂ |
| 16 19 | 3 20 | 24 28 | 5 36 | 21 31 | | | | □ | | | |
| 16 15 | 3 18 | 25 6 | 6 46 | 22 47 | | Δ | | | | | |
| 16 11 | 3 17 | 25 44 | 7 56 | 24 1 | | Δ | | Δ | | | |
| 16 6 | 3 15 | 26 23 | 9 5 | 25 14 | h □ h | | * | | | | |
| 16 2 | 3 14 | 27 1 | 10 15 | 26 24 | | □ | | | | Δ | Δ |
| 15 58 | 3 12 | 27 39 | 11 24 | 27 34 | | | | | | | Δ |
| 15 53 | 3 11 | 28 18 | 12 33 | 28 58 | ♀ ♂ h | | ♂ | □ | | | |
| 15 49 | 3 10 | 28 56 | 13 42 | 29 42 | | * | | | ♂ | □ | □ |
| 15 44 | 3 9 | 29 35 | 14 51 | 0 43 | ☉ Δ h | | | Δ | | □ | |
| 15 40 | 3 9 | 0 14 | 16 0 | 1 41 | ♀ * h | | | | | * | * |
| 15 35 | 3 8 | 0 62 | 17 9 | 2 37 | | | | | | | |
| 15 31 | 3 8 | 1 81 | 18 18 | 3 30 | ♀ □ h | | Δ | | | * | |
| 15 27 | 3 8 | 2 10 | 19 27 | 4 20 | | ♂ | | Δ | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 S | 5 | 22 S | 51 | 0 S | 4 |
| 4 | 15 | 47 | 0 | 5 | 22 | 51 | 0 | 4 |
| 7 | 15 | 48 | 0 | 5 | 22 | 51 | 0 | 4 |
| 10 | 15 | 48 | 0 | 5 | 22 | 50 | 0 | 4 |
| 13 | 15 | 49 | 0 | 5 | 22 | 50 | 0 | 5 |
| 16 | 15 | 49 | 0 | 5 | 22 | 50 | 0 | 5 |
| 19 | 15 | 50 | 0 | 5 | 22 | 50 | 0 | 5 |
| 22 | 15 | 50 | 0 | 5 | 22 | 50 | 0 | 6 |
| 25 | 15 | 51 | 0 | 5 | 22 | 50 | 0 | 6 |
| 28 | 15 | 51 | 0 | 5 | 22 | 50 | 0 | 6 |
| 31 | 15 | 52 | 0 | 5 | 22 | 50 | 0 | 6 |

| D | D | Sidereal | ☉ | ☉ | ♃ | ♃ | ♃ | ♃ |
|----|----|----------|----------|--------|--------|---------|--------|---------|
| M | W | Time. | Long. | Declin | Long. | Lat. | Declin | Long. |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 8 37 59 | 8 Ω 33 | 27 | 18 N 9 | 0 Ω 49 | 4 N 59 | 24 N 52 |
| 2 | S | 8 41 56 | 9 30 55 | 17 | 53 | 13 10 | 4 56 | 21 36 |
| 3 | M | 8 45 53 | 10 28 24 | 17 | 38 | 25 41 | 4 38 | 17 20 |
| 4 | Tu | 8 49 49 | 11 25 54 | 17 | 22 | 8 ♉ 24 | 4 6 | 12 14 |
| 5 | W | 8 53 46 | 12 23 25 | 17 | 6 | 21 17 | 3 21 | 6 33 |
| 6 | Th | 8 57 42 | 13 20 56 | 16 | 50 | 4 ♊ 23 | 2 25 | 0 29 |
| 7 | F | 9 1 39 | 14 18 28 | 16 | 33 | 17 40 | 1 20 | 5 S 43 |
| 8 | S | 9 5 35 | 15 16 1 | 16 | 17 | 1 ♋ 11 | 0 9 | 11 45 |
| 9 | S | 9 9 32 | 16 13 35 | 15 | 59 | 14 57 | 1 S 3 | 17 20 |
| 10 | M | 9 13 28 | 17 11 10 | 15 | 42 | 28 58 | 2 13 | 22 7 |
| 11 | Tu | 9 17 25 | 18 8 46 | 15 | 24 | 13 ♌ 15 | 3 16 | 25 40 |
| 12 | W | 9 21 22 | 19 6 22 | 15 | 7 | 27 45 | 4 8 | 27 35 |
| 13 | Th | 9 25 18 | 20 4 0 | 14 | 49 | 12 ♍ 25 | 4 43 | 27 36 |
| 14 | F | 9 29 15 | 21 1 38 | 14 | 30 | 27 8 | 5 1 | 25 40 |
| 15 | S | 9 33 11 | 21 59 17 | 14 | 12 | 11 ♎ 48 | 4 58 | 22 2 |
| 16 | S | 9 37 8 | 22 56 58 | 13 | 53 | 26 15 | 4 36 | 17 6 |
| 17 | M | 9 41 4 | 23 54 40 | 13 | 34 | 10 ♏ 25 | 3 58 | 11 20 |
| 18 | Tu | 9 45 1 | 24 52 24 | 13 | 15 | 24 11 | 3 7 | 5 9 |
| 19 | W | 9 48 57 | 25 50 9 | 12 | 55 | 7 ♐ 32 | 2 5 | 1 N 4 |
| 20 | Th | 9 52 54 | 26 47 55 | 12 | 36 | 20 28 | 1 0 | 7 5 |
| 21 | F | 9 56 51 | 27 45 43 | 12 | 16 | 3 ♑ 2 | 0 N 7 | 12 38 |
| 22 | S | 10 0 47 | 28 43 33 | 11 | 56 | 15 17 | 1 11 | 17 36 |
| 23 | S | 10 4 44 | 29 41 25 | 11 | 36 | 27 19 | 2 12 | 21 44 |
| 24 | M | 10 8 40 | 0 ♒ 39 | 19 | 15 | 9 ♑ 12 | 3 6 | 24 5 |
| 25 | Tu | 10 12 37 | 1 37 15 | 10 | 55 | 21 2 | 3 52 | 27 1 |
| 26 | W | 10 16 33 | 2 35 12 | 10 | 34 | 2 ♒ 54 | 4 28 | 27 54 |
| 27 | Th | 10 20 29 | 3 33 11 | 10 | 18 | 14 52 | 4 52 | 27 28 |
| 28 | F | 10 24 25 | 4 31 12 | 9 | 52 | 27 0 | 5 4 | 25 45 |
| 29 | S | 10 28 21 | 5 29 15 | 9 | 31 | 9 ♓ 20 | 5 2 | 22 47 |
| 30 | S | 10 32 17 | 6 27 19 | 9 | 9 | 21 54 | 4 45 | 18 43 |
| 31 | M | 10 36 13 | 7 25 26 | 8 | 48 | 4 ♉ 42 | 4 14 | 18 45 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 54 | 7 N 28 | 1 N 9 | 7 N 10 | 1 N 25 | 14 N 52 | 3 5 51 |
| 4 | 0 53 | 6 48 | 1 2 | 5 40 | 1 8 | 12 50 | 3 41 |
| 7 | 0 51 | 5 58 | 0 53 | 4 10 | 0 49 | 10 46 | 3 32 |
| 10 | 0 49 | 5 12 | 0 44 | 2 40 | 0 26 | 8 40 | 3 22 |
| 13 | 0 47 | 4 26 | 0 35 | 1 6 | 0 2 | 6 36 | 3 18 |
| 16 | 0 45 | 3 44 | 0 25 | 0 S 27 | 0 S 24 | 4 33 | 3 3 |
| 19 | 0 44 | 2 52 | 0 15 | 2 0 | 0 52 | 2 34 | 2 54 |
| 22 | 0 43 | 2 5 | 0 4 | 3 32 | 1 20 | 0 40 | 2 44 |
| 25 | 0 41 | 1 18 | 0 S 8 | 5 5 | 1 49 | 1 S 7 | 2 35 |
| 28 | 0 39 | 0 31 | 0 21 | 6 36 | 2 17 | 2 46 | 2 25 |
| 31 | 0 37 | 0 17 | 0 34 | 8 4 | 2 45 | 4 15 | 2 16 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ | ♁ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 17 24 | 4 27 | 13 6 | 14 29 | 23 59 | | | | | | | | |
| 2 | 17 21 | 4 22 | 13 48 | 15 40 | 25 46 | | ♂ | Δ | | | | | |
| 3 | 17 18 | 4 17 | 14 21 | 16 51 | 27 30 | ♀ ☐ ♈ | | | | | | | ♂ |
| 4 | 17 15 | 4 12 | 14 58 | 18 2 | 29 11 | ♀ ♂ ♈ | | | | Δ | | | |
| 5 | 17 12 | 4 7 | 15 36 | 19 13 | 0 51 | | | ☐ | ♂ | | ♂ | ♂ | |
| 6 | 17 9 | 4 2 | 16 14 | 20 24 | 2 30 | ♂ ☐ ♈ | | | | ☐ | | | |
| 7 | 17 5 | 3 58 | 16 52 | 21 34 | 4 8 | ♂ ♂ ♈ | * | * | | | | | |
| 8 | 17 2 | 3 54 | 17 29 | 22 45 | 5 44 | ♀ Δ ♈ | | | | * | | | * |
| 9 | 16 58 | 3 50 | 18 7 | 23 55 | 7 18 | ☉ Δ ♈ | ☐ | | Δ | | * | | |
| 10 | 16 55 | 3 47 | 18 45 | 25 6 | 8 50 | | | | | | | * | |
| 11 | 16 51 | 3 43 | 19 23 | 26 16 | 10 21 | | Δ | ♂ | ☐ | | ☐ | | ☐ |
| 12 | 16 47 | 3 39 | 20 1 | 27 26 | 11 51 | | | | | ♂ | | ☐ | |
| 13 | 16 43 | 3 36 | 20 39 | 28 36 | 13 19 | | | | * | | | | Δ |
| 14 | 16 39 | 3 33 | 21 17 | 29 46 | 14 46 | | | | | | Δ | Δ | |
| 15 | 16 35 | 3 30 | 21 55 | 0 56 | 16 11 | ♀ ☐ ♈ | | * | | | | | |
| 16 | 16 31 | 3 28 | 22 33 | 2 6 | 17 33 | ♀ ♂ ♈ | ♂ | | | * | | | |
| 17 | 16 27 | 3 25 | 23 11 | 3 16 | 18 54 | ♀ ☐ ♈ | | ☐ | ♂ | | | | |
| 18 | 16 23 | 3 22 | 23 49 | 4 26 | 20 13 | | | | | | ♂ | ♂ | |
| 19 | 16 19 | 3 20 | 24 28 | 5 36 | 21 31 | | | | | ☐ | | | |
| 20 | 16 15 | 3 18 | 25 6 | 6 46 | 22 47 | | | Δ | | | | | |
| 21 | 16 11 | 3 17 | 25 44 | 7 56 | 24 1 | | Δ | | | Δ | | | |
| 22 | 16 6 | 3 15 | 26 23 | 9 5 | 25 14 | ♈ ☐ ♈ | | | * | | | | |
| 23 | 16 2 | 3 14 | 27 1 | 10 15 | 26 24 | | ☐ | | | | Δ | | Δ |
| 24 | 15 58 | 3 12 | 27 39 | 11 24 | 27 34 | | | | | | | Δ | |
| 25 | 15 53 | 3 11 | 28 18 | 12 33 | 28 38 | ♀ ♂ ♂ | | ♂ | ☐ | | | | |
| 26 | 15 49 | 3 10 | 28 56 | 13 42 | 29 42 | | * | | | ♂ | ☐ | | ☐ |
| 27 | 15 44 | 3 9 | 29 35 | 14 51 | 0 43 | ☉ Δ ♈ | | | Δ | | | ☐ | |
| 28 | 15 40 | 3 9 | 0 14 | 16 0 | 1 41 | ♀ * ♈ | | | | | * | | * |
| 29 | 15 35 | 3 8 | 0 52 | 17 9 | 2 37 | | | | | | | | |
| 30 | 15 31 | 3 8 | 1 31 | 18 18 | 3 30 | ♀ ☐ ♈ | | Δ | | | | * | |
| 31 | 15 27 | 3 8 | 2 10 | 19 27 | 4 20 | | ♂ | | | Δ | | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | |
| 1 | 15 | 54 | 08 | 5 | 22 S 50 | 28 13 | 7 S 49 | 08 7 | 23 S 33 |
| 4 | 15 | 54 | 0 | 5 | 22 50 | 2 18 | 7 55 | 0 7 | 23 33 |
| 7 | 15 | 55 | 0 | 5 | 22 50 | 2 13 | 8 0 | 0 8 | 23 33 |
| 10 | 15 | 56 | 0 | 5 | 22 50 | 2 13 | 8 6 | 0 8 | 23 34 |
| 13 | 15 | 57 | 0 | 5 | 22 50 | 2 13 | 8 11 | 0 8 | 23 34 |
| 16 | 15 | 57 | 0 | 5 | 22 51 | 2 13 | 8 16 | 0 8 | 23 34 |
| 19 | 15 | 58 | 0 | 5 | 22 51 | 2 13 | 8 21 | 0 9 | 23 34 |
| 22 | 15 | 59 | 0 | 5 | 22 52 | 2 13 | 8 26 | 0 9 | 23 34 |
| 25 | 16 | 0 | 0 | 5 | 22 52 | 2 13 | 8 32 | 0 10 | 23 34 |
| 28 | 16 | 0 | 0 | 5 | 22 52 | 2 13 | 8 37 | 0 10 | 23 33 |

| D | D | Sidereal | ☉ | ☉ | ☽ | ☽ | ☽ | ☾ |
|----|----|----------|----------------------|--------|--------------------|--------|--------|-------------------|
| M | W | Time. | Long. | Declin | Long. | Lat. | Declin | Long. |
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 10 40 9 | 8 ^m 23 34 | 8 N 26 | 17 ^m 44 | 3 N 30 | 8 N 4 | 16 ^f 9 |
| 2 | W | 10 44 6 | 9 21 44 | 8 4 | 0 ⁿ 58 | 2 33 | 1 57 | 16 9 |
| 3 | Th | 10 48 2 | 10 19 54 | 7 42 | 14 25 | 1 26 | 4 S 22 | 16 10 |
| 4 | F | 10 51 59 | 11 18 8 | 7 20 | 28 1 | 0 14 | 10 34 | 16 11 |
| 5 | S | 10 55 55 | 12 16 22 | 6 58 | 11 ^m 47 | 1 S 0 | 16 19 | 16 12 |
| 6 | S | 10 59 52 | 13 14 37 | 6 36 | 25 42 | 2 11 | 21 20 | 16 13 |
| 7 | M | 11 3 49 | 14 12 54 | 6 13 | 9 ^f 45 | 3 15 | 25 9 | 16 13 |
| 8 | Tu | 11 7 45 | 15 11 13 | 5 51 | 23 55 | 4 8 | 27 28 | 16 14 |
| 9 | W | 11 11 42 | 16 9 33 | 5 28 | 8 ^w 10 | 4 46 | 27 58 | 16 14 |
| 10 | Th | 11 15 38 | 17 7 54 | 5 5 | 22 28 | 5 6 | 26 37 | 16 15 |
| 11 | F | 11 19 35 | 18 6 17 | 4 42 | 6 ^m 45 | 5 7 | 23 33 | 16 15 |
| 12 | S | 11 23 31 | 19 4 42 | 4 20 | 20 58 | 4 49 | 19 5 | 16 16 |
| 13 | S | 11 27 28 | 20 3 8 | 3 57 | 5 ^x 0 | 4 15 | 13 38 | 16 17 |
| 14 | M | 11 31 24 | 21 1 37 | 3 34 | 18 48 | 3 25 | 7 35 | 16 18 |
| 15 | Tu | 11 35 21 | 22 0 6 | 3 11 | 2 ^r 18 | 2 25 | 1 18 | 16 19 |
| 16 | W | 11 39 18 | 22 58 39 | 2 47 | 15 28 | 1 19 | 4 N 53 | 16 20 |
| 17 | Th | 11 43 14 | 23 57 13 | 2 24 | 28 18 | 0 10 | 10 44 | 16 21 |
| 18 | F | 11 47 11 | 24 55 49 | 2 1 | 10 ^x 49 | 0 N 58 | 16 1 | 16 22 |
| 19 | S | 11 51 7 | 25 54 27 | 1 38 | 23 4 | 2 2 | 20 32 | 16 23 |
| 20 | S | 11 55 4 | 26 53 8 | 1 14 | 5 ⁿ 7 | 3 0 | 24 7 | 16 24 |
| 21 | M | 11 59 0 | 27 51 51 | 0 51 | 17 1 | 3 49 | 26 38 | 16 26 |
| 22 | Tu | 12 2 57 | 28 50 36 | 0 29 | 28 52 | 4 28 | 27 56 | 16 27 |
| 23 | W | 12 6 53 | 29 49 24 | 0 4 | 10 ⁿ 45 | 4 55 | 27 56 | 16 29 |
| 24 | Th | 12 10 50 | 0 ⁿ 48 14 | 0 S 19 | 22 45 | 5 10 | 26 39 | 16 30 |
| 25 | F | 12 14 46 | 1 47 5 | 0 43 | 4 ^Q 55 | 5 12 | 24 6 | 16 32 |
| 26 | S | 12 18 43 | 2 46 0 | 1 6 | 17 20 | 4 59 | 20 24 | 16 33 |
| 27 | S | 12 22 40 | 3 44 57 | 1 30 | 0 ^m 2 | 4 31 | 15 42 | 16 34 |
| 28 | M | 12 26 36 | 4 43 55 | 1 53 | 13 2 | 3 49 | 10 11 | 16 36 |
| 29 | Tu | 12 30 33 | 5 42 56 | 2 1 | 26 22 | 2 53 | 4 6 | 16 38 |
| 30 | W | 12 34 29 | 6 41 59 | 2 40 | 9 ⁿ 59 | 1 47 | 2 S 19 | 16 40 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 0 N 37 | 0 8 34 | 0 8 36 | 8 8 36 | 2 8 54 | 4 8 42 | 2 5 13 |
| 4 | 0 35 | 1 22 | 0 49 | 10 4 | 3 19 | 5 51 | 2 8 |
| 7 | 0 33 | 2 9 | 1 2 | 11 81 | 3 41 | 6 42 | 1 54 |
| 10 | 0 31 | 2 56 | 1 16 | 12 53 | 3 57 | 7 11 | 1 44 |
| 13 | 0 30 | 3 45 | 1 28 | 14 16 | 4 5 | 7 10 | 1 35 |
| 16 | 0 28 | 4 32 | 1 42 | 15 37 | 4 1 | 6 38 | 1 25 |
| 19 | 0 26 | 5 21 | 1 55 | 16 54 | 3 43 | 5 19 | 1 16 |
| 22 | 0 24 | 6 8 | 2 8 | 18 7 | 3 5 | 3 32 | 1 6 |
| 25 | 0 23 | 6 56 | 2 21 | 19 18 | 2 14 | 1 27 | 0 57 |
| 28 | 0 21 | 7 48 | 2 34 | 20 23 | 1 14 | 0 N 33 | 0 47 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar | | | ☿ |
|--------|---------|--------|--------|---------|--------|-------|------------------|-------|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☽ | ☾ | |
| 1 | 16 22 | 3 7 8 | 2 49 | 20 35 | 5 6 | ♂ ☐ ♀ | | ☐ | ☾ | | |
| 2 | 16 17 | 3 9 | 3 28 | 21 44 | 5 51 | | | | | | ♂ |
| 3 | 16 13 | 3 10 | 4 7 | 22 51 | 6 30 | | | * | | | |
| 4 | 15 8 | 3 11 | 4 46 | 24 1 | 7 4 | | | | | | |
| 5 | 15 4 | 3 12 | 5 25 | 25 9 | 7 34 | | | * | | | |
| 6 | 14 59 | 3 13 | 6 4 | 26 17 | 8 1 | | | | | | |
| 7 | 14 54 | 3 14 | 6 43 | 27 25 | 8 24 | | | ☐ | ♂ | ☐ | * |
| 8 | 14 50 | 3 16 | 7 22 | 28 33 | 8 41 | ☉ ♂ ♀ | | | | | * |
| 9 | 14 45 | 3 18 | 8 1 | 29 40 | 8 52 | ☉ ☐ ☽ | | | * | ♂ | ☐ |
| 10 | 14 40 | 3 20 | 8 40 | 0 48 | 8 57 | ♀ ♂ ♂ | | Δ | | | |
| 11 | 14 36 | 3 22 | 9 19 | 1 55 | 8 56 | | | | | | Δ |
| 12 | 14 31 | 3 24 | 9 58 | 3 3 | 8 49 | ♀ * ♀ | | | * | | Δ |
| 13 | 14 26 | 3 26 | 10 38 | 4 10 | 8 36 | | | | | * | Δ |
| 14 | 14 21 | 3 29 | 11 17 | 5 17 | 8 16 | | | ♂ | ☐ | ♂ | |
| 15 | 14 17 | 3 32 | 11 57 | 6 24 | 7 48 | | | | | ☐ | ♂ |
| 16 | 14 12 | 3 35 | 12 36 | 7 30 | 7 13 | | | | Δ | | |
| 17 | 14 8 | 3 38 | 13 16 | 8 37 | 6 32 | | | | | | ♂ |
| 18 | 14 3 | 3 41 | 13 55 | 9 44 | 5 45 | | | | * | | ♂ |
| 19 | 13 59 | 3 45 | 14 36 | 10 50 | 4 51 | | | Δ | | | |
| 20 | 13 54 | 3 49 | 15 14 | 11 56 | 3 53 | ♀ ☐ ♀ | | | | | Δ |
| 21 | 13 50 | 3 53 | 15 54 | 13 2 | 2 51 | ♀ Δ ♀ | | | ♂ | ☐ | Δ |
| 22 | 13 45 | 3 57 | 16 34 | 14 7 | 1 45 | ♂ * ☽ | | ☐ | | ♂ | ☐ |
| 23 | 13 41 | 4 1 | 17 14 | 15 13 | 0 38 | ☉ ♂ ♀ | | | | Δ | Δ |
| 24 | 13 37 | 4 5 | 17 54 | 16 19 | 29 33 | | | | | | * |
| 25 | 13 33 | 4 10 | 18 34 | 17 24 | 28 30 | | | * | | | |
| 26 | 13 29 | 4 15 | 19 14 | 29 27 | 32 | | | | Δ | | * |
| 27 | 13 25 | 4 20 | 19 54 | 34 26 | 38 | | | | | | ☐ |
| 28 | 13 21 | 4 25 | 20 34 | 38 25 | 47 | ☉ ☐ ♀ | | | ☐ | ♂ | |
| 29 | 13 17 | 4 31 | 21 14 | 43 25 | 6 | | | | | | * |
| 30 | 13 13 | 4 36 | 21 54 | 48 24 | 37 | | | ♂ | | ☐ | ♂ |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 08 5 | 22 S 53 | 28 13 | 8 S 41 | 08 10 | 23 S 33 |
| 4 | 16 | 1 | 0 5 | 22 53 | 2 18 | 8 45 | 0 10 | 23 33 |
| 7 | 16 | 2 | 0 5 | 22 54 | 2 18 | 8 49 | 0 11 | 23 32 |
| 10 | 16 | 3 | 0 5 | 22 55 | 2 18 | 8 53 | 0 11 | 23 31 |
| 13 | 16 | 4 | 0 5 | 22 55 | 2 12 | 8 56 | 0 11 | 23 31 |
| 16 | 16 | 5 | 0 5 | 22 56 | 2 12 | 9 0 | 0 11 | 23 30 |
| 19 | 16 | 5 | 0 5 | 22 57 | 2 12 | 9 3 | 0 12 | 23 29 |
| 22 | 16 | 6 | 0 5 | 22 58 | 2 12 | 9 5 | 0 12 | 23 28 |
| 25 | 16 | 7 | 0 5 | 22 59 | 2 11 | 9 7 | 0 12 | 23 26 |
| 28 | 16 | 7 | 0 5 | 22 59 | 2 11 | 9 8 | 0 12 | 23 25 |
| 31 | 16 | 8 | 0 5 | 23 0 | 2 11 | 9 10 | 0 12 | 23 23 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | Th | 12 38 26 | 7 41 5 | 38 3 | 23 51 | 0 N 32 | 8 S 46 | 16 42 |
| 2 | F | 12 42 22 | 8 40 12 | 3 26 | 7 54 | 0 S 45 | 14 52 | 16 44 |
| 3 | S | 12 46 19 | 9 39 21 | 3 50 | 22 5 | 2 0 | 20 15 | 16 46 |
| 4 | S | 12 50 15 | 10 38 32 | 4 18 | 6 21 | 3 9 | 24 29 | 16 48 |
| 5 | M | 12 54 12 | 11 37 44 | 4 36 | 20 37 | 4 5 | 27 18 | 16 50 |
| 6 | Tu | 12 58 9 | 12 36 59 | 4 59 | 4 52 | 4 47 | 28 9 | 16 52 |
| 7 | W | 13 2 5 | 13 36 15 | 5 22 | 19 3 | 5 10 | 27 14 | 16 54 |
| 8 | Th | 13 6 2 | 14 35 32 | 5 45 | 3 7 | 5 15 | 24 36 | 16 56 |
| 9 | F | 13 9 58 | 15 34 52 | 6 8 | 17 3 | 5 2 | 20 32 | 16 58 |
| 10 | S | 13 13 55 | 16 34 13 | 6 31 | 0 49 | 4 31 | 15 25 | 17 0 |
| 11 | S | 13 17 51 | 17 33 36 | 6 54 | 14 23 | 3 45 | 9 37 | 17 2 |
| 12 | M | 13 21 48 | 18 33 1 | 7 17 | 27 45 | 2 48 | 3 28 | 17 4 |
| 13 | Tu | 13 25 45 | 19 32 28 | 7 39 | 10 52 | 1 42 | 2 N 44 | 17 7 |
| 14 | W | 13 29 41 | 20 31 57 | 8 2 | 23 44 | 0 38 | 8 43 | 17 9 |
| 15 | Th | 13 33 38 | 21 31 25 | 8 24 | 6 22 | 0 N 37 | 14 14 | 17 12 |
| 16 | F | 13 37 34 | 22 31 0 | 8 46 | 18 45 | 1 44 | 19 5 | 17 14 |
| 17 | S | 13 41 31 | 23 30 36 | 9 8 | 0 56 | 2 45 | 23 3 | 17 17 |
| 18 | S | 13 45 27 | 24 30 14 | 9 30 | 12 57 | 3 38 | 25 58 | 17 19 |
| 19 | M | 13 49 24 | 25 29 53 | 9 52 | 24 51 | 4 21 | 27 42 | 17 22 |
| 20 | Tu | 13 53 20 | 26 29 35 | 10 14 | 6 42 | 4 52 | 28 10 | 17 25 |
| 21 | W | 13 57 17 | 27 29 20 | 10 35 | 18 35 | 5 11 | 27 19 | 17 27 |
| 22 | Th | 14 1 13 | 28 29 6 | 10 57 | 0 33 | 5 17 | 25 13 | 17 30 |
| 23 | F | 14 5 10 | 29 28 55 | 11 18 | 12 42 | 5 9 | 21 57 | 17 32 |
| 24 | S | 14 9 7 | 0 28 46 | 11 39 | 25 6 | 4 47 | 17 40 | 17 35 |
| 25 | S | 14 13 3 | 1 28 40 | 12 0 | 7 45 | 4 10 | 12 31 | 17 37 |
| 26 | M | 14 17 0 | 2 28 36 | 12 21 | 20 53 | 3 19 | 6 40 | 17 40 |
| 27 | Tu | 14 20 56 | 3 28 34 | 12 41 | 4 21 | 2 16 | 0 21 | 17 42 |
| 28 | W | 14 24 53 | 4 28 34 | 13 2 | 18 13 | 1 3 | 6 S 10 | 17 45 |
| 29 | Th | 14 28 49 | 5 28 36 | 13 22 | 2 25 | 0 S 15 | 12 34 | 17 48 |
| 30 | F | 14 32 46 | 6 28 40 | 13 42 | 16 55 | 1 34 | 18 24 | 17 51 |
| 31 | S | 14 36 42 | 7 28 46 | 14 1 | 1 35 | 2 45 | 23 14 | 17 55 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 19 | 8 S 30 | 2 S 43 | 21 S 27 | 0 S 15 | 2 N 3 | 0 S 38 |
| 4 | 0 18 | 9 16 | 3 58 | 22 22 | 0 N 37 | 2 50 | 0 28 |
| 7 | 0 16 | 10 2 | 3 10 | 23 18 | 1 16 | 2 49 | 0 19 |
| 10 | 0 14 | 10 47 | 3 21 | 24 7 | 1 42 | 2 6 | 0 9 |
| 13 | 0 12 | 11 32 | 3 31 | 24 52 | 1 57 | 0 49 | 29 r 59 |
| 16 | 0 10 | 12 16 | 3 41 | 25 30 | 2 1 | 0 S 51 | 29 40 |
| 19 | 0 9 | 13 0 | 3 49 | 26 5 | 1 58 | 2 46 | 29 30 |
| 22 | 0 7 | 13 42 | 3 58 | 26 38 | 1 49 | 4 49 | 29 21 |
| 25 | 0 5 | 14 24 | 4 8 | 26 57 | 1 35 | 6 55 | 29 11 |
| 28 | 0 3 | 15 4 | 4 8 | 27 18 | 1 19 | 9 1 | 29 2 |
| 31 | 0 1 | 15 44 | 4 13 | 27 30 | 1 1 | 11 4 | 28 52 |

| D
M | ♂ | | ♀ | | ☿ | Mutual
Aspts. | Lunar Aspects. | | | | |
|--------|--------|------------|------------|-----------|-------|------------------|----------------|---|-----|-----|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♀ | ☾ | ☾ |
| | ° | ' | ° | ' | ° | | | | | | |
| 1 | 13 8 9 | 4 w 42 22 | 35 23 m 52 | 24 w 17 | ♀ * ♀ | | | | | | |
| 2 | 13 5 | 4 48 28 | 16 24 | 56 24 R 8 | | | | | | Δ | |
| 3 | 13 1 | 4 54 23 | 56 25 | 59 24 D 8 | | | | | | | |
| 4 | 12 57 | 5 0 24 | 86 27 | 2 24 18 | | | * | | | □ | |
| 5 | 12 53 | 5 6 25 | 16 28 | 5 24 39 | | | | ♂ | | | |
| 11 | 12 49 | 5 12 25 | 57 29 | 8 25 10 | | | | | | | |
| 7 | 12 46 | 5 19 26 | 37 0 f 11 | 25 50 | | | □ | | * | | |
| 8 | 12 43 | 5 26 27 | 17 1 | 13 26 39 | | | | | | | |
| 9 | 12 39 | 5 33 27 | 58 2 | 15 27 36 | | | Δ | * | | | |
| 10 | 12 36 | 5 40 28 | 39 3 | 17 28 40 | ☉ * ☿ | | | | | | |
| 11 | 12 32 | 5 47 29 | 20 4 | 18 29 50 | | | | | | □ | C |
| 12 | 12 29 | 5 54 0 m 1 | 5 20 | 1 Δ 5 | | | | | | | |
| 13 | 12 26 | 6 2 0 | 42 6 | 21 2 26 | | | | | | | |
| 14 | 12 23 | 6 10 1 | 23 7 | 21 3 49 | | | ♂ | Δ | | | |
| 15 | 12 20 | 6 18 2 | 4 8 | 21 5 17 | | | | | | * | |
| 16 | 12 17 | 6 26 2 | 45 9 | 20 6 48 | ♀ □ ♀ | | | | | | |
| 17 | 12 14 | 6 34 3 | 26 10 | 19 8 21 | | | | | | | |
| 18 | 12 11 | 6 42 4 | 7 11 | 18 9 56 | | | ♂ | □ | | ♂ Δ | |
| 19 | 12 8 | 6 50 4 | 48 12 | 17 11 33 | ♀ □ ♀ | Δ | | | | | |
| 20 | 12 5 | 6 59 5 | 29 13 | 16 13 11 | ♀ * ♀ | | | Δ | ♂ Δ | | |
| 21 | 12 3 | 7 7 6 | 10 14 | 13 14 50 | | | | | | | □ |
| 22 | 12 0 | 7 16 6 | 52 15 | 10 16 30 | ♀ * ☿ | □ | | | | | |
| 23 | 11 58 | 7 24 7 | 33 16 | 7 18 10 | ♂ * ♀ | | Δ | | | □ Δ | |
| 24 | 11 56 | 7 33 8 | 14 17 | 3 19 50 | ♀ □ ☿ | * | | | | | ☿ |
| 25 | 11 54 | 7 42 8 | 55 17 | 59 21 31 | | | | ♂ | Δ * | | |
| 26 | 11 52 | 7 51 9 | 37 18 | 54 23 12 | | | □ | | | | □ |
| 27 | 11 50 | 8 0 10 | 18 19 | 49 24 53 | | | | | | □ | |
| 28 | 11 48 | 8 10 11 | 0 20 | 43 26 33 | | | * | | | | * |
| 29 | 11 46 | 8 20 11 | 41 21 | 37 28 18 | ♂ Δ ♀ | ♂ | | | * | | ♂ |
| 30 | 11 44 | 8 30 12 | 33 22 | 30 29 53 | | | | Δ | | ♂ | |
| 31 | 11 42 | 8 40 13 | 5 23 | 2 1 m 33 | | | | | | | |

| 22 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1818. | | |
|--------------------|-------------------|-----------------------------------|-----------|---|---------|---|---------|----|---------|----|----------|--------|---------|----|
| NOVEMBER XXX DAYS. | | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | | | Saturn. | | | | Jupiter. | | | |
| | | | Lat. | | Declin. | | Lat. | | Declin. | | Lat. | | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 S | 5 | 23 S | 1 | 2 S | 10 | 9 S | 11 | 0 S | 12 | 23 S | 23 |
| 4 | 16 | 10 | 0 | 5 | 23 | 1 | 2 | 10 | 9 | 12 | 0 | 12 | 23 | 21 |
| 7 | 16 | 11 | 0 | 5 | 23 | 2 | 2 | 9 | 9 | 13 | 0 | 13 | 23 | 19 |
| 10 | 16 | 12 | 0 | 5 | 23 | 3 | 2 | 9 | 9 | 13 | 0 | 13 | 23 | 16 |
| 13 | 16 | 12 | 0 | 5 | 23 | 3 | 2 | 8 | 9 | 13 | 0 | 13 | 23 | 14 |
| 16 | 16 | 13 | 0 | 5 | 23 | 4 | 2 | 8 | 9 | 12 | 0 | 13 | 23 | 11 |
| 19 | 16 | 14 | 0 | 5 | 23 | 5 | 2 | 7 | 9 | 12 | 0 | 14 | 23 | 9 |
| 22 | 16 | 14 | 0 | 6 | 23 | 6 | 2 | 7 | 9 | 11 | 0 | 14 | 23 | 6 |
| 25 | 16 | 15 | 0 | 6 | 23 | 7 | 2 | 6 | 9 | 10 | 0 | 14 | 23 | 2 |
| 28 | 16 | 15 | 0 | 6 | 23 | 8 | 2 | 6 | 9 | 8 | 0 | 14 | 22 | 58 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ♂
Long. | | | ♂
Lat. | | | ♂
Declin | | | ♂
Long. | | |
|--------|--------|-------------------|----|----|------------|----|----|-------------|----|------|------------|-----|----|-----------|----|------|-------------|----|---|------------|---|---|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | S | 14 | 40 | 39 | 8 m | 28 | 54 | 14 S | 21 | 16 f | 19 | 3 S | 50 | 26 S | 35 | 17 f | 58 | | | | | |
| 2 | M | 14 | 44 | 36 | 9 | 29 | 3 | 14 | 40 | 1 w | 0 | 4 | 38 | 28 | 6 | 18 | 1 | | | | | |
| 3 | Tu | 14 | 48 | 32 | 10 | 29 | 14 | 14 | 59 | 15 | 32 | 5 | 7 | 27 | 39 | 18 | 4 | | | | | |
| 4 | W | 14 | 52 | 29 | 11 | 29 | 27 | 15 | 18 | 29 | 51 | 5 | 16 | 25 | 21 | 18 | 7 | | | | | |
| 5 | Th | 14 | 56 | 25 | 12 | 29 | 41 | 15 | 36 | 13 m | 54 | 5 | 7 | 21 | 34 | 18 | 10 | | | | | |
| 6 | F | 15 | 0 | 22 | 13 | 29 | 56 | 15 | 56 | 27 | 39 | 4 | 40 | 16 | 40 | 18 | 13 | | | | | |
| 7 | S | 15 | 4 | 18 | 14 | 30 | 13 | 16 | 12 | 11 x | 8 | 3 | 57 | 11 | 3 | 18 | 16 | | | | | |
| 8 | S | 15 | 8 | 15 | 15 | 30 | 31 | 16 | 30 | 24 | 20 | 3 | 3 | 5 | 3 | 18 | 19 | | | | | |
| 9 | M | 15 | 12 | 11 | 16 | 30 | 51 | 16 | 48 | 7 r | 18 | 2 | 1 | 1 N | 3 | 18 | 22 | | | | | |
| 10 | Tu | 15 | 16 | 8 | 17 | 31 | 12 | 17 | 5 | 20 | 2 | 0 | 53 | 7 | 1 | 18 | 26 | | | | | |
| 11 | W | 15 | 20 | 5 | 18 | 31 | 35 | 17 | 22 | 2 x | 35 | 0 | N | 16 | 12 | 38 | 18 | 30 | | | | |
| 12 | Th | 15 | 24 | 1 | 19 | 31 | 59 | 17 | 38 | 14 | 56 | 1 | 23 | 17 | 39 | 18 | 33 | | | | | |
| 13 | F | 15 | 27 | 58 | 20 | 32 | 25 | 17 | 54 | 27 | 8 | 2 | 25 | 21 | 54 | 18 | 37 | | | | | |
| 14 | S | 15 | 31 | 54 | 21 | 32 | 53 | 18 | 10 | 9 | 13 | 3 | 20 | 25 | 10 | 18 | 40 | | | | | |
| 15 | S | 15 | 35 | 51 | 22 | 33 | 22 | 18 | 26 | 21 | 10 | 4 | 2 | 27 | 16 | 18 | 44 | | | | | |
| 16 | M | 15 | 39 | 47 | 23 | 33 | 54 | 18 | 41 | 3 x | 3 | 4 | 41 | 28 | 7 | 18 | 47 | | | | | |
| 17 | Tu | 15 | 43 | 44 | 24 | 34 | 27 | 18 | 56 | 14 | 54 | 5 | 3 | 27 | 39 | 18 | 51 | | | | | |
| 18 | W | 15 | 47 | 40 | 25 | 35 | 1 | 19 | 11 | 26 | 40 | 5 | 13 | 25 | 57 | 18 | 55 | | | | | |
| 19 | Th | 15 | 51 | 37 | 26 | 35 | 38 | 19 | 25 | 8 | 43 | 5 | 9 | 23 | 5 | 18 | 58 | | | | | |
| 20 | F | 15 | 55 | 34 | 27 | 36 | 16 | 19 | 39 | 20 | 48 | 4 | 52 | 19 | 11 | 19 | 1 | | | | | |
| 21 | S | 15 | 59 | 30 | 28 | 36 | 56 | 19 | 52 | 3 m | 8 | 4 | 21 | 14 | 25 | 19 | 4 | | | | | |
| 22 | S | 16 | 3 | 27 | 29 | 37 | 38 | 20 | 6 | 15 | 45 | 3 | 36 | 8 | 57 | 19 | 7 | | | | | |
| 23 | M | 16 | 7 | 23 | 0 f | 38 | 22 | 20 | 18 | 28 | 45 | 2 | 40 | 2 | 56 | 19 | 10 | | | | | |
| 24 | Tu | 16 | 11 | 20 | 1 | 39 | 7 | 20 | 31 | 12 | 10 | 1 | 33 | 3 8 | 24 | 19 | 14 | | | | | |
| 25 | W | 16 | 15 | 16 | 2 | 39 | 54 | 20 | 43 | 26 | 3 | 0 | 18 | 9 | 47 | 19 | 17 | | | | | |
| 26 | Th | 16 | 19 | 13 | 3 | 40 | 42 | 20 | 55 | 10 m | 23 | 1 S | 0 | 15 | 54 | 19 | 21 | | | | | |
| 27 | F | 16 | 23 | 9 | 4 | 41 | 32 | 21 | 6 | 25 | 7 | 2 | 16 | 21 | 16 | 19 | 24 | | | | | |
| 28 | S | 16 | 27 | 6 | 5 | 42 | 23 | 21 | 16 | 10 f | 8 | 3 | 23 | 25 | 21 | 19 | 27 | | | | | |
| 29 | S | 16 | 31 | 3 | 6 | 43 | 16 | 21 | 27 | 25 | 17 | 4 | 18 | 27 | 41 | 19 | 31 | | | | | |
| 30 | M | 16 | 34 | 59 | 7 | 44 | 9 | 21 | 37 | 10 w | 25 | 4 | 54 | 27 | 56 | 19 | 35 | | | | | |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 0 N 1 | 15 S 58 | 4 S 12 | 27 S 33 | 0 N 55 | 11 S 44 | 28 r 59 |
| 4 | 0 S 1 | 16 36 | 4 13 | 27 40 | 0 35 | 13 41 | 28 49 |
| 7 | 0 2 | 17 15 | 4 18 | 27 41 | 0 15 | 15 31 | 28 40 |
| 10 | 0 4 | 17 50 | 4 10 | 27 40 | 0 S 5 | 17 15 | 28 30 |
| 13 | 0 6 | 18 26 | 4 6 | 27 31 | 0 25 | 18 51 | 28 21 |
| 16 | 0 8 | 18 59 | 3 57 | 27 21 | 0 44 | 20 18 | 28 11 |
| 19 | 0 10 | 19 33 | 3 49 | 27 5 | 1 3 | 21 37 | 28 2 |
| 22 | 0 11 | 20 3 | 3 34 | 26 47 | 1 20 | 22 46 | 27 52 |
| 25 | 0 13 | 20 33 | 3 19 | 26 25 | 1 36 | 23 45 | 27 43 |
| 28 | 0 15 | 21 0 | 2 55 | 26 0 | 1 49 | 24 32 | 27 38 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|--------------|-----------|-----------|-----------|------------------|----------------|-----------|-----------|-----------|-----------|-----------|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 11 x 41 | 8 w 50 | 13 m 47 | 24 f 13 | 3 m 12 | ☉ * ♄ | | ♂ | □ | | | |
| 2 | 11 R 39 | 9 0 14 | 29 25 | 3 4 51 | | | | | | | ♂ * | |
| 3 | 11 38 | 9 10 15 | 11 25 | 53 6 29 | | | * | | * | ♂ * | | |
| 4 | 11 37 | 9 20 15 | 53 26 | 42 8 7 | ☉ Δ h | | | | | | | |
| 5 | 11 36 | 9 30 16 | 35 27 | 31 9 45 | ♂ * ♄ | | □ | * | | | □ | □ |
| 6 | 11 35 | 9 40 17 | 17 28 | 19 11 23 | ♂ Δ h | | | | | | * | |
| 7 | 11 34 | 9 51 17 | 59 29 | 7 13 0 | | | Δ | | ♂ | * | | Δ |
| 8 | 11 34 | 10 2 18 | 41 29 | 53 14 37 | | | | □ | | | Δ | □ |
| 9 | 11 33 | 10 13 19 | 23 0 w 38 | 16 13 | | | | | | □ | | |
| 10 | 11 33 | 10 24 20 | 6 1 22 | 17 49 | ☉ ♂ ♀ | | Δ | | | | | |
| 11 | 11 32 | 10 35 20 | 48 2 51 | 19 25 | | | | | | | Δ | |
| 12 | 11 32 | 10 46 21 | 30 2 47 | 21 0 | | | ♂ | | * | Δ | | ♂ |
| 13 | 11 31 | 10 57 22 | 13 3 28 | 22 35 | ♂ ♂ ♂ | | | | | | ♂ | ♂ |
| 14 | 11 31 | 11 8 22 | 55 4 7 | 24 10 | | | | □ | | | | |
| 15 | 11 D 31 | 11 20 23 | 38 4 45 | 25 45 | | | ♂ | | | | | |
| 16 | 11 31 | 11 32 24 | 21 5 22 | 27 19 | ♄ * h | | | | | | ♂ | |
| 17 | 11 31 | 11 43 25 | 3 5 58 | 28 53 | | | | | Δ | ♂ | | |
| 18 | 11 32 | 11 55 25 | 46 6 33 | 0 f 27 | | | Δ | | | | Δ | Δ |
| 19 | 11 32 | 12 6 26 | 29 7 8 | 2 1 | ☉ ♂ ♂ | | | | | | | |
| 20 | 11 33 | 12 18 27 | 11 7 41 | 3 85 | | | Δ | | | | | |
| 21 | 11 33 | 12 30 27 | 54 8 12 | 5 8 | | | □ | | | | □ | Δ |
| 22 | 11 34 | 12 42 28 | 37 8 41 | 6 41 | | | | □ | ♂ | Δ | | □ |
| 23 | 11 34 | 12 54 29 | 20 9 8 | 8 14 | | | * | | | | * | |
| 24 | 11 35 | 13 6 0 f 3 | 9 9 33 | 9 47 | | | | | | □ | | * |
| 25 | 11 36 | 13 18 0 | 46 9 56 | 11 20 | ♂ □ h | | | * | | | | |
| 26 | 11 37 | 13 30 1 | 29 10 | 17 12 53 | | | | | Δ | * | | * |
| 27 | 11 38 | 13 43 2 | 12 10 | 36 14 26 | | | | | | | ♂ | |
| 28 | 11 39 | 13 55 2 | 56 10 | 53 15 58 | | | ♂ | | * | | | ♂ |
| 29 | 11 41 | 14 8 3 | 49 11 | 9 17 30 | | | | ♂ | | | | |
| 30 | 11 42 | 14 20 4 | 22 11 | 24 19 2 | ♂ ♂ ♄ | | | | □ | ♂ | | ♂ |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia | | Herschel. | | Saturn. | | Jupiter. | |
|--------|------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 6 | 23 S 9 | 2 S 5 | 9 S 5 | 0 S 15 | 22 S 55 |
| 4 | 16 | 15 | 0 6 | 23 10 | 2 5 | 9 8 | 0 15 | 22 51 |
| 7 | 16 | 16 | 0 6 | 23 11 | 2 4 | 9 0 | 0 15 | 22 47 |
| 10 | 16 | 16 | 0 6 | 23 12 | 2 4 | 8 57 | 0 15 | 22 42 |
| 13 | 16 | 16 | 0 6 | 23 13 | 2 3 | 8 53 | 0 16 | 22 37 |
| 16 | 16 | 16 | 0 6 | 23 13 | 2 3 | 8 49 | 0 16 | 22 32 |
| 19 | 16 | 17 | 0 6 | 23 14 | 2 2 | 8 45 | 0 16 | 22 27 |
| 22 | 16 | 17 | 0 6 | 23 15 | 2 2 | 8 40 | 0 16 | 22 23 |
| 25 | 16 | 17 | 0 6 | 23 15 | 2 1 | 8 35 | 0 17 | 22 16 |
| 28 | 16 | 17 | 0 6 | 23 16 | 2 1 | 8 30 | 0 17 | 22 10 |
| 31 | 16 | 17 | 0 6 | 23 17 | 2 1 | 8 24 | 0 17 | 22 4 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 16 38 56 | 8 45 3 | 21 S 47 | 25 w 21 | 5 S 9 | 26 S 9 | 19 439 |
| 2 | W | 16 42 52 | 9 45 59 | 21 56 | 9 m 57 | 5 4 | 22 39 | 19 42 |
| 3 | Th | 16 46 49 | 10 46 55 | 22 52 | 11 4 | 4 40 | 17 53 | 19 46 |
| 4 | F | 16 50 45 | 11 47 52 | 22 14 | 7 x 59 | 4 1 | 12 18 | 19 49 |
| 5 | S | 16 54 42 | 12 48 49 | 22 22 | 21 23 | 3 9 | 6 19 | 19 53 |
| 6 | S | 16 58 38 | 13 49 47 | 22 29 | 4 r 24 | 2 8 | 0 18 | 19 57 |
| 7 | M | 17 2 35 | 14 50 48 | 22 36 | 17 8 | 1 8 | 5 N 40 | 20 1 |
| 8 | Tu | 17 6 32 | 15 51 46 | 22 43 | 29 36 | 0 N 4 | 11 24 | 20 4 |
| 9 | W | 17 11 28 | 16 52 46 | 22 49 | 11 s 52 | 1 9 | 16 31 | 20 8 |
| 10 | Th | 17 14 25 | 17 53 47 | 22 55 | 24 0 | 2 11 | 20 54 | 20 12 |
| 11 | F | 17 18 21 | 18 54 48 | 23 0 | 6 □ 1 | 3 6 | 24 23 | 20 16 |
| 12 | S | 17 22 18 | 19 55 50 | 23 5 | 17 58 | 3 52 | 26 47 | 20 19 |
| 13 | S | 17 26 14 | 20 56 54 | 23 9 | 29 52 | 4 28 | 27 56 | 20 22 |
| 14 | M | 17 30 11 | 21 57 57 | 23 13 | 11 s 44 | 4 52 | 27 48 | 20 26 |
| 15 | Tu | 17 34 7 | 22 59 1 | 23 17 | 23 36 | 5 4 | 28 23 | 20 30 |
| 16 | W | 17 38 4 | 24 0 6 | 23 20 | 5 Ω 30 | 5 2 | 23 47 | 20 33 |
| 17 | Th | 17 42 1 | 25 1 12 | 23 22 | 17 29 | 4 47 | 20 10 | 20 37 |
| 18 | F | 17 46 57 | 26 2 20 | 23 24 | 29 35 | 4 19 | 15 40 | 20 41 |
| 19 | S | 17 49 54 | 27 3 27 | 23 26 | 11 w 51 | 3 39 | 10 30 | 20 44 |
| 20 | S | 17 53 50 | 28 4 36 | 23 27 | 24 24 | 2 47 | 4 47 | 20 48 |
| 21 | M | 17 57 47 | 29 5 45 | 23 28 | 7 s 16 | 1 46 | 1 S 15 | 20 52 |
| 22 | Tu | 18 1 43 | 0 w 6 | 23 28 | 20 32 | 0 38 | 7 27 | 20 56 |
| 23 | W | 18 5 40 | 1 8 6 | 23 28 | 4 m 15 | 0 S 35 | 13 31 | 21 0 |
| 24 | Th | 18 9 36 | 2 9 17 | 23 27 | 18 28 | 1 49 | 19 5 | 21 3 |
| 25 | F | 18 13 33 | 3 10 29 | 23 26 | 3 f 8 | 2 57 | 23 43 | 21 7 |
| 26 | S | 18 17 30 | 4 11 41 | 23 24 | 18 12 | 3 55 | 26 50 | 21 11 |
| 27 | S | 18 21 27 | 5 12 54 | 23 22 | 3 w 30 | 4 37 | 28 2 | 21 15 |
| 28 | M | 18 25 24 | 6 14 6 | 23 19 | 18 52 | 4 59 | 27 4 | 21 18 |
| 29 | Tu | 18 29 21 | 7 15 19 | 23 16 | 4 m 5 | 4 59 | 24 6 | 21 21 |
| 30 | W | 18 33 18 | 8 16 32 | 23 12 | 19 0 | 4 39 | 19 34 | 21 25 |
| 31 | Th | 18 37 15 | 9 17 45 | 23 8 | 3 x 29 | 4 2 | 14 0 | 21 28 |

1818.]

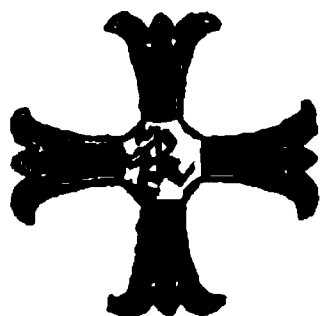
DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 08 17 | 21 S 27 | 28 35 | 25 S 32 | 28 1 | 25 S 9 | 27 r 24 |
| 4 | 0 19 | 21 49 | 1 59 | 25 0 | 2 10 | 25 38 | 27 14 |
| 7 | 0 21 | 22 14 | 1 35 | 24 29 | 2 16 | 25 44 | 27 5 |
| 10 | 0 23 | 22 34 | 0 58 | 23 54 | 2 18 | 25 42 | 26 55 |
| 13 | 0 24 | 22 53 | 0 17 | 23 18 | 2 15 | 25 26 | 26 46 |
| 16 | 0 26 | 23 9 | 0 N 25 | 22 26 | 2 7 | 24 58 | 26 36 |
| 19 | 0 28 | 23 24 | 1 13 | 21 59 | 1 52 | 24 17 | 26 27 |
| 22 | 0 29 | 23 36 | 2 0 | 21 14 | 1 29 | 23 26 | 26 17 |
| 25 | 0 31 | 23 47 | 2 46 | 20 46 | 0 56 | 22 29 | 26 8 |
| 28 | 0 33 | 23 55 | 3 22 | 20 5 | 0 13 | 21 31 | 25 58 |
| 31 | 0 34 | 24 1 | 3 55 | 19 30 | 0 N 40 | 20 40 | 25 49 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|-----|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 11 44 | 14 w 33 | 5 f 6 | 11 w 38 | 20 f 34 | | | | | | | | | |
| 2 | 11 46 | 14 45 | 5 49 | 11 48 | 22 6 | ♀ * h | * | | | | * | | | |
| 3 | 11 48 | 14 58 | 6 33 | 11 56 | 23 38 | | | * | | | | | | * |
| 4 | 11 50 | 15 11 | 7 16 | 12 25 | 9 | ☉ □ h | □ | | ♂ | | □ * | | | |
| 5 | 11 52 | 15 24 | 8 0 | 12 6 | 26 40 | | | □ | | * | | | | □ |
| 6 | 11 54 | 15 37 | 8 43 | 12 R 6 | 28 11 | | | | | | | Δ | | |
| 7 | 11 56 | 15 50 | 9 27 | 12 2 | 29 42 | | | Δ | Δ | | □ | | □ | |
| 8 | 11 59 | 16 3 | 10 10 | 11 55 | 1 w 13 | ♀ * h | | | | | | | | Δ |
| 9 | 12 1 | 16 16 | 10 54 | 11 47 | 2 43 | | | | | * | Δ | | Δ | |
| 10 | 12 4 | 16 29 | 11 38 | 11 37 | 4 12 | | | | | | | | | |
| 11 | 12 6 | 16 42 | 12 22 | 11 25 | 5 40 | ♂ □ h | | | | | | | | |
| 12 | 12 9 | 16 55 | 13 6 | 11 11 | 7 7 | ☉ ♂ h | ♂ | ♂ | □ | | ♂ | | | |
| 13 | 12 12 | 17 9 | 13 50 | 10 55 | 8 34 | ♀ ♂ ♀ | | | | | | | | |
| 14 | 12 15 | 17 22 | 14 34 | 10 37 | 9 59 | | | | | Δ | ♂ | | ♂ | ♂ |
| 15 | 12 18 | 17 36 | 15 18 | 10 16 | 11 23 | | | | | | | | | |
| 16 | 12 21 | 17 49 | 16 2 | 9 53 | 12 45 | ♀ * h | | | | | | | | |
| 17 | 12 24 | 18 3 | 16 46 | 9 27 | 14 5 | | | | Δ | | | | Δ | |
| 18 | 12 27 | 18 16 | 17 30 | 8 58 | 15 23 | | | Δ | | | | | | |
| 19 | 12 31 | 18 30 | 18 14 | 8 26 | 16 38 | | | | | ♂ | Δ | | Δ | Δ |
| 20 | 12 34 | 18 44 | 18 58 | 7 54 | 17 49 | | | □ | □ | | | □ | | |
| 21 | 12 38 | 18 57 | 19 43 | 7 21 | 18 57 | ♀ ♂ ♀ | | | | | | | □ | |
| 22 | 12 42 | 19 11 | 20 27 | 6 47 | 20 1 | ♂ ♂ h | | * | * | | □ * | * | | □ |
| 23 | 12 46 | 19 24 | 21 12 | 6 12 | 21 0 | | | * | | | | * | * | |
| 24 | 12 50 | 19 38 | 21 56 | 5 36 | 21 52 | | | | | Δ | * | | | * |
| 25 | 12 54 | 19 52 | 22 41 | 5 0 | 22 37 | | | | | | | | | |
| 26 | 12 58 | 20 5 | 23 25 | 4 24 | 23 16 | ☉ ♂ ♀ | | ♂ | ♂ | □ | | ♂ | | |
| 27 | 13 2 | 20 18 | 24 10 | 3 47 | 23 45 | | | ♂ | | | | | ♂ | |
| 28 | 13 6 | 20 32 | 24 54 | 3 11 | 24 6 | | | | | * | ♂ | | | ♂ |
| 29 | 13 14 | 20 46 | 25 39 | 2 36 | 24 16 | | | | | | | | | |
| 30 | 13 10 | 21 0 | 26 23 | 2 2 | 24 15 | | | * | | | | | | |
| 31 | 13 18 | 21 14 | 27 8 | 1 28 | 24 3 | | | * | | | | * | * | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES
For 1819.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

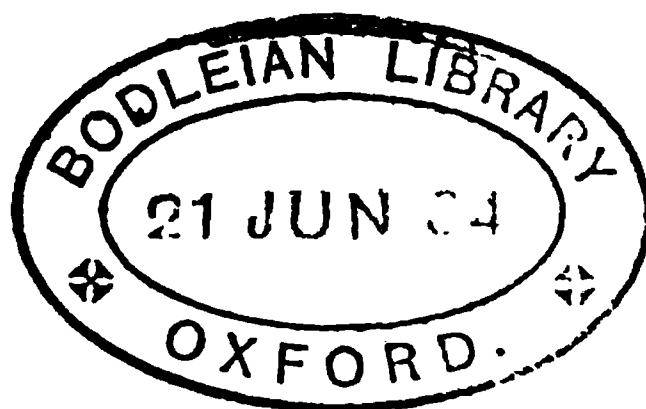
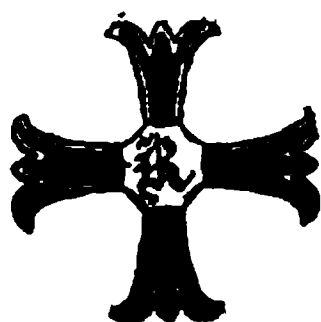
(Alm., 13. . . .)

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANET'S PLACES

For 1819.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1888.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 6 | 23 S 17 | 2 S 0 | 8 S 22 | 0 S 17 | 22 S 3 |
| 4 | 16 | 15 | 0 6 | 23 18 | 2 0 | 8 17 | 0 17 | 21 56 |
| 7 | 16 | 16 | 0 6 | 23 19 | 1 59 | 8 11 | 0 18 | 21 50 |
| 10 | 16 | 16 | 0 6 | 23 20 | 1 59 | 8 5 | 0 18 | 21 43 |
| 13 | 16 | 17 | 0 6 | 23 20 | 1 58 | 7 58 | 0 18 | 21 35 |
| 16 | 16 | 17 | 0 6 | 23 21 | 1 58 | 7 51 | 0 18 | 21 28 |
| 19 | 16 | 17 | 0 6 | 23 21 | 1 58 | 7 44 | 0 19 | 21 20 |
| 22 | 16 | 18 | 0 6 | 23 22 | 1 58 | 7 37 | 0 19 | 21 12 |
| 25 | 16 | 18 | 0 6 | 23 22 | 1 57 | 7 30 | 0 19 | 21 4 |
| 28 | 16 | 18 | 0 6 | 23 22 | 1 57 | 7 23 | 0 19 | 20 56 |
| 31 | 16 | 18 | 0 6 | 23 23 | 1 57 | 7 16 | 0 19 | 20 48 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 18 41 12 | 10 W 18 57 | 23 S 4 | 17 X 28 | 3 S 11 | 7 S 52 | 21 1 31 |
| 2 | S | 18 45 9 | 11 20 9 | 22 59 | 0 r 58 | 2 11 | 1 37 | 21 34 |
| 3 | S | 18 49 5 | 12 21 20 | 22 53 | 14 1 | 1 5 | 4 N 32 | 21 38 |
| 4 | M | 18 53 2 | 13 22 31 | 22 48 | 26 40 | 0 N 1 | 10 19 | 21 41 |
| 5 | Tu | 18 56 59 | 14 23 42 | 22 41 | 9 2 | 1 6 | 15 34 | 21 44 |
| 6 | W | 19 0 55 | 15 24 52 | 22 34 | 21 11 | 2 7 | 20 7 | 21 47 |
| 7 | Th | 19 4 52 | 16 26 1 | 22 27 | 3 10 | 3 1 | 23 46 | 21 51 |
| 8 | F | 19 8 48 | 17 27 11 | 22 20 | 15 4 | 3 47 | 26 23 | 21 54 |
| 9 | S | 19 11 45 | 18 28 19 | 22 11 | 26 56 | 4 22 | 27 48 | 21 57 |
| 10 | S | 19 16 41 | 19 29 28 | 22 3 | 8 48 | 4 46 | 27 56 | 22 1 |
| 11 | M | 19 20 38 | 20 30 35 | 21 54 | 20 41 | 4 58 | 26 47 | 22 5 |
| 12 | Tu | 19 24 34 | 21 31 43 | 21 44 | 2 37 | 4 57 | 24 24 | 22 8 |
| 13 | W | 19 28 31 | 22 32 50 | 21 34 | 14 37 | 4 42 | 20 57 | 22 12 |
| 14 | Th | 19 32 28 | 23 33 56 | 21 24 | 26 43 | 4 15 | 16 37 | 22 15 |
| 15 | F | 19 36 24 | 24 35 2 | 21 14 | 8 m 55 | 3 36 | 11 34 | 22 19 |
| 16 | S | 19 40 21 | 25 36 8 | 21 3 | 21 16 | 2 46 | 6 0 | 22 22 |
| 17 | S | 19 44 17 | 26 37 14 | 20 51 | 3 50 | 1 47 | 0 6 | 22 26 |
| 18 | M | 19 48 14 | 27 38 19 | 20 39 | 16 40 | 0 41 | 5 S 55 | 22 29 |
| 19 | Tu | 19 52 10 | 28 39 24 | 20 27 | 29 50 | 0 S 28 | 11 52 | 22 32 |
| 20 | W | 19 56 7 | 29 40 28 | 20 14 | 13 m 23 | 1 38 | 17 26 | 22 35 |
| 21 | Th | 20 0 3 | 0 m 41 32 | 20 1 | 27 21 | 2 44 | 23 16 | 22 37 |
| 22 | F | 20 4 0 | 1 42 35 | 19 48 | 11 46 | 3 42 | 25 54 | 22 40 |
| 23 | S | 20 7 57 | 2 43 38 | 19 34 | 26 35 | 4 26 | 27 51 | 22 43 |
| 24 | S | 20 11 53 | 3 44 40 | 19 20 | 11 W 42 | 4 53 | 27 48 | 22 46 |
| 25 | M | 20 15 50 | 4 45 42 | 19 6 | 26 57 | 5 0 | 25 41 | 22 49 |
| 26 | Tu | 20 19 46 | 5 46 43 | 18 51 | 12 m 10 | 4 45 | 21 44 | 22 52 |
| 27 | W | 20 23 42 | 6 47 43 | 18 36 | 27 10 | 4 11 | 16 24 | 22 55 |
| 28 | Th | 20 27 39 | 7 48 41 | 18 20 | 11 X 46 | 3 21 | 10 15 | 22 58 |
| 29 | F | 20 31 36 | 8 49 39 | 18 4 | 25 56 | 2 19 | 3 45 | 23 1 |
| 30 | S | 20 35 33 | 9 50 35 | 17 48 | 9 r 34 | 1 12 | 2 N 41 | 23 3 |
| 31 | S | 20 39 29 | 10 51 29 | 17 32 | 22 44 | 0 3 | 8 48 | 23 6 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 08 35 | 24 8 2 | 4 N19 | 19 S 8 | 1 N 0 | 20 S 24 | 25 r 45 |
| 4 | 0 37 | 24 4 | 4 49 | 18 38 | 1 59 | 19 51 | 25 35 |
| 7 | 0 39 | 24 5 | 5 19 | 18 8 | 2 47 | 19 32 | 25 26 |
| 10 | 0 41 | 24 3 | 5 35 | 17 57 | 3 16 | 19 30 | 25 16 |
| 13 | 0 42 | 23 59 | 5 52 | 17 34 | 3 25 | 19 40 | 25 7 |
| 16 | 0 44 | 23 53 | 5 59 | 17 17 | 3 14 | 19 57 | 24 57 |
| 19 | 0 45 | 23 43 | 6 4 | 17 22 | 2 52 | 20 21 | 24 48 |
| 22 | 0 47 | 23 31 | 6 3 | 17 26 | 2 23 | 20 47 | 24 38 |
| 25 | 0 49 | 23 19 | 5 59 | 17 28 | 1 51 | 21 12 | 24 29 |
| 28 | 0 50 | 23 3 | 5 51 | 17 36 | 1 20 | 21 31 | 24 19 |
| 31 | 0 51 | 22 44 | 5 41 | 17 46 | 0 49 | 21 44 | 24 10 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 13 x 23 | 21 w 29 | 27 f 53 | 0 w 56 | 23 w 39 | | | ☐ | ♂ | * | | | * |
| 2 | 13 27 | 21 43 | 28 88 | 0 R 22 | 23 R 5 | ♀ ♂ ♂ | | | | | ☐ | ☐ | |
| 3 | 13 32 | 21 57 | 29 23 | 29 f 50 | 22 19 | ♀ ♂ ♄ | ☐ | | | | | | |
| 4 | 13 37 | 22 11 | 0 w 8 | 29 21 | 21 20 | ☉ * h | | Δ | | | ☐ | Δ | ☐ |
| 5 | 13 42 | 22 25 | 0 53 | 28 55 | 20 12 | | Δ | | * | | | | |
| 6 | 13 47 | 22 39 | 1 38 | 28 32 | 18 58 | | | | | | Δ | | Δ |
| 7 | 13 52 | 22 53 | 2 23 | 28 12 | 17 40 | | | | | | | | |
| 8 | 13 57 | 23 7 | 3 8 | 27 54 | 16 20 | ☉ ♂ ♀ | | | ☐ | | | | |
| 9 | 14 2 | 23 21 | 3 53 | 27 38 | 15 1 | | | ♂ | | | | ♂ | |
| 10 | 14 7 | 23 35 | 4 38 | 27 24 | 13 44 | ♀ * h | | | Δ | | ♂ | ♂ | ♂ |
| 11 | 14 12 | 23 49 | 5 23 | 27 11 | 12 32 | | ♂ | | | | ♂ | | |
| 12 | 14 18 | 24 3 | 6 8 | 27 0 | 11 27 | | | | | | | | |
| 13 | 14 24 | 24 18 | 6 54 | 26 50 | 10 30 | | | | | | | | |
| 14 | 14 29 | 24 32 | 7 39 | 26 33 | 9 41 | ♀ ♂ ♂ | | Δ | | | | Δ | |
| 15 | 14 35 | 24 46 | 8 25 | 26 29 | 9 3 | ☉ ♂ ♄ | | | ♂ | | Δ | | Δ |
| 16 | 14 40 | 25 0 | 9 10 | 26 D 29 | 8 37 | | Δ | ☐ | | | Δ | | ☐ |
| 17 | 14 46 | 25 14 | 9 56 | 26 32 | 8 20 | | | | * | | | | ☐ |
| 18 | 14 52 | 25 28 | 10 41 | 26 38 | 8 10 | | | | | | | ☐ | |
| 19 | 14 58 | 25 42 | 11 27 | 26 58 | 8 D 7 | | ☐ | | | | ☐ | * | * |
| 20 | 15 4 | 25 56 | 12 12 | 27 10 | 8 12 | | | | Δ | | * | | * |
| 21 | 15 10 | 26 10 | 12 58 | 27 23 | 8 26 | | * | | | * | | | |
| 22 | 15 16 | 26 24 | 13 43 | 27 37 | 8 50 | | | | ☐ | | | | |
| 23 | 15 22 | 26 38 | 14 28 | 27 52 | 9 19 | | | ♂ | | | | ♂ | |
| 24 | 15 28 | 26 52 | 15 15 | 28 8 | 9 52 | ♂ * h | | | * | | | | ♂ |
| 25 | 15 34 | 27 7 | 16 1 | 28 26 | 10 30 | | | | | ♂ | ♂ | | |
| 26 | 15 40 | 27 22 | 16 46 | 28 47 | 11 12 | | ♂ | | | | | | |
| 27 | 15 46 | 27 35 | 17 32 | 29 10 | 11 58 | | | * | | | | * | |
| 28 | 15 52 | 27 49 | 18 18 | 29 35 | 12 47 | | | | ♂ | | | | * |
| 29 | 15 59 | 28 3 | 19 4 | 0 w 3 | 13 41 | | | ☐ | | * | * | ☐ | |
| 30 | 16 5 | 28 17 | 19 50 | 0 33 | 14 38 | | * | | | | | | ☐ |
| 31 | 16 11 | 28 31 | 20 36 | 1 5 | 15 37 | | | Δ | | | ☐ | ☐ | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 15 | 0 8 | 6 23 | 1 57 | 7 8 | 0 8 | 20 8 |
| 2 | 16 | 15 | 0 8 | 6 23 | 1 57 | 7 4 | 0 20 | 20 38 |
| 7 | 16 | 14 | 0 6 | 6 23 | 1 56 | 6 56 | 0 21 | 20 29 |
| 10 | 16 | 14 | 0 6 | 6 23 | 1 56 | 6 48 | 0 21 | 20 20 |
| 13 | 16 | 13 | 0 6 | 6 23 | 1 56 | 6 40 | 0 22 | 20 11 |
| 16 | 16 | 12 | 0 6 | 6 23 | 1 56 | 6 32 | 0 23 | 20 2 |
| 19 | 16 | 11 | 0 6 | 6 23 | 1 56 | 6 23 | 0 23 | 19 54 |
| 22 | 16 | 11 | 0 6 | 6 23 | 1 56 | 6 15 | 0 23 | 19 45 |
| 25 | 16 | 10 | 0 6 | 6 23 | 1 56 | 6 6 | 0 23 | 19 36 |
| 28 | 16 | 10 | 0 6 | 6 23 | 1 56 | 5 58 | 0 23 | 19 27 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ☽
Long. | | ☽
Lat. | | ☽
Declin. | | M
Long. | |
|--------|--------|-------------------|----|----|------------|------|--------------|----|------------|----|-----------|---|--------------|----|------------|----|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | M | 20 | 43 | 28 | 11 | m 52 | 23 | 17 | 8 | 15 | 5 | 5 | 29 | 1 | N | 4 |
| 2 | Tu | 20 | 47 | 22 | 12 | 53 | 14 | 16 | 58 | 17 | 53 | 2 | 7 | 19 | 18 | 23 |
| 3 | W | 20 | 51 | 19 | 13 | 54 | 4 | 16 | 40 | 0 | 1 | 3 | 2 | 23 | 8 | 23 |
| 4 | Th | 20 | 55 | 15 | 14 | 54 | 53 | 16 | 23 | 11 | 59 | 3 | 46 | 26 | 1 | 23 |
| 5 | F | 20 | 59 | 12 | 15 | 55 | 40 | 16 | 5 | 23 | 51 | 4 | 24 | 27 | 43 | 23 |
| 6 | S | 21 | 3 | 8 | 16 | 56 | 25 | 15 | 47 | 5 | 41 | 4 | 49 | 28 | 9 | 23 |
| 7 | | | | | 17 | 57 | 9 | 15 | 28 | 17 | 33 | 5 | 1 | 27 | 17 | 23 |
| 8 | | | | | 18 | 57 | 51 | 15 | 9 | 29 | 29 | 5 | 0 | 25 | 10 | 23 |
| 9 | | | | | 19 | 58 | 32 | 14 | 50 | 11 | 31 | 4 | 46 | 21 | 54 | 23 |
| 10 | | | | | 20 | 59 | 12 | 14 | 31 | 23 | 40 | 4 | 18 | 17 | 42 | 23 |
| 11 | Th | 21 | 22 | 51 | 21 | 59 | 50 | 14 | 12 | 5 | 57 | 3 | 39 | 13 | 44 | 23 |
| 12 | F | 21 | 26 | 48 | 23 | 0 | 27 | 13 | 52 | 18 | 22 | 2 | 48 | 7 | 11 | 23 |
| 13 | S | 21 | 30 | 44 | 24 | 1 | 2 | 13 | 32 | 0 | 57 | 1 | 49 | 1 | 17 | 23 |
| 14 | S | 21 | 34 | 41 | 25 | 1 | 36 | 13 | 12 | 18 | 43 | 0 | 43 | 4 | 3 | 23 |
| 15 | M | 21 | 38 | 37 | 26 | 2 | 9 | 11 | 51 | 26 | 43 | 0 | 8 | 27 | 10 | 23 |
| 16 | Tu | 21 | 42 | 34 | 27 | 3 | 41 | 12 | 31 | 9 | 57 | 1 | 36 | 16 | 19 | 23 |
| 17 | W | 21 | 46 | 30 | 28 | 3 | 11 | 12 | 10 | 23 | 28 | 2 | 42 | 21 | 16 | 23 |
| 18 | Th | 21 | 50 | 27 | 29 | 3 | 40 | 11 | 49 | 7 | 19 | 3 | 40 | 25 | 9 | 23 |
| 19 | F | 21 | 54 | 24 | 0 | x | 4 | 7 | 11 | 28 | 21 | 4 | 25 | 27 | 36 | 23 |
| 20 | S | 21 | 58 | 20 | 1 | 4 | 34 | 11 | 6 | 5 | 57 | 4 | 55 | 28 | 15 | 23 |
| 21 | S | 22 | 2 | 17 | 2 | 4 | 59 | 10 | 45 | 20 | 40 | 5 | 7 | 26 | 55 | 23 |
| 22 | M | 22 | 6 | 13 | 3 | 5 | 22 | 10 | 23 | 5 | 33 | 4 | 58 | 23 | 43 | 23 |
| 23 | Tu | 22 | 10 | 10 | 4 | 5 | 44 | 10 | 1 | 20 | 25 | 4 | 28 | 18 | 55 | 23 |
| 24 | W | 22 | 14 | 6 | 5 | 6 | 5 | 9 | 39 | 6 | x | 3 | 41 | 13 | 4 | 23 |
| 25 | Th | 22 | 18 | 3 | 6 | 6 | 23 | 9 | 17 | 19 | 39 | 2 | 41 | 6 | 34 | 24 |
| 26 | F | 22 | 21 | 59 | 7 | 6 | 40 | 8 | 55 | 3 | r | 1 | 32 | 0 | N | 5 |
| 27 | S | 22 | 25 | 56 | 8 | 6 | 55 | 8 | 32 | 17 | 26 | 0 | 19 | 6 | 33 | 24 |
| 28 | S | 22 | 29 | 53 | 9 | 7 | 8 | 8 | 10 | 0 | 41 | 0 | N | 52 | 12 | 32 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 08 52 | 22 8 37 | 5 N 38 | 17 8 48 | 0 N 39 | 21 S 46 | 24 r 7 |
| 4 | 0 54 | 22 15 | 5 28 | 17 58 | 0 11 | 21 47 | 23 57 |
| 7 | 0 55 | 21 53 | 5 14 | 18 8 | 0 S 16 | 21 38 | 23 48 |
| 10 | 0 57 | 21 27 | 5 0 | 18 16 | 0 40 | 21 19 | 23 38 |
| 13 | 0 58 | 21 0 | 4 44 | 18 23 | 1 2 | 20 48 | 23 29 |
| 16 | 1 0 | 20 31 | 4 29 | 18 28 | 1 21 | 20 6 | 23 19 |
| 19 | 1 1 | 19 58 | 4 11 | 18 31 | 1 37 | 19 12 | 23 10 |
| 22 | 1 2 | 19 23 | 3 55 | 18 30 | 1 50 | 18 6 | 23 0 |
| 25 | 1 3 | 18 48 | 3 35 | 18 27 | 2 0 | 16 48 | 22 50 |
| 28 | 1 4 | 18 8 | 3 18 | 18 21 | 2 7 | 15 18 | 22 41 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 16 x 18 | 28 w 45 | 21 w 22 | 1 w 39 | 16 w 41 | ☿ * h | | | | | | Δ | |
| 2 | 16 24 | 28 59 | 22 8 | 2 13 | 17 44 | | ☐ | | * | | Δ | | Δ |
| 3 | 16 31 | 29 13 | 22 54 | 2 48 | 18 52 | | | | | Δ | | | |
| 4 | 16 38 | 29 27 | 23 40 | 3 24 | 20 4 | | Δ | | ☐ | | | | |
| 5 | 16 45 | 29 41 | 24 26 | 4 1 | 21 16 | | | ♌ | | | | | |
| 6 | 16 52 | 29 55 | 25 12 | 4 39 | 22 29 | | | | | | | | ♌ |
| 7 | 16 59 | 0 m 9 | 25 58 | 5 16 | 23 44 | | | | Δ | | | | |
| 8 | 17 6 | 0 23 | 26 44 | 5 57 | 25 1 | | | | | ♌ | ♌ | | ♌ |
| 9 | 17 13 | 0 37 | 27 30 | 6 39 | 26 19 | | | | | | | | |
| 10 | 17 20 | 0 51 | 28 16 | 7 22 | 27 38 | | ♌ | Δ | | | | | |
| 11 | 17 27 | 1 5 | 29 2 | 8 6 | 28 59 | ☿ ☉ ♌ | | | | | | Δ | |
| 12 | 17 34 | 1 18 | 29 48 | 8 51 | 0 m 21 | | | ☐ | ♌ | | | | Δ |
| 13 | 17 41 | 1 31 | 0 m 35 | 9 37 | 1 44 | ☉ * h | | | | Δ | Δ | | Δ |
| 14 | 17 48 | 1 45 | 1 21 | 10 24 | 3 8 | ☿ ☉ ♈ | | | | | | ☐ | |
| 15 | 17 55 | 1 58 | 2 8 | 11 12 | 4 34 | ♌ ☉ ♈ | Δ | * | | ☐ | ☐ | | |
| 16 | 18 2 | 2 12 | 2 54 | 12 1 | 6 1 | | | | | | | * | ☐ |
| 17 | 18 9 | 2 25 | 3 41 | 12 51 | 7 29 | | ☐ | | Δ | | | | |
| 18 | 18 16 | 2 39 | 4 27 | 13 41 | 8 58 | | | | | * | * | | * |
| 19 | 18 23 | 2 52 | 5 14 | 14 32 | 10 28 | | | ☉ | ☐ | | | | |
| 20 | 18 30 | 3 6 | 6 0 | 15 24 | 11 59 | | * | | | | | | |
| 21 | 18 37 | 3 19 | 6 47 | 16 16 | 13 31 | | | | * | | | ☉ | |
| 22 | 18 44 | 3 32 | 7 33 | 17 9 | 15 3 | | | | | ☉ | ☉ | | |
| 23 | 18 51 | 3 45 | 8 20 | 18 3 | 16 37 | | | * | | | | | ☉ |
| 24 | 18 58 | 3 58 | 9 6 | 18 58 | 18 12 | ☿ * h | ☉ | | | | | | |
| 25 | 19 6 | 4 11 | 9 53 | 19 53 | 19 47 | | | ☐ | ☉ | | | * | |
| 26 | 19 13 | 4 24 | 10 39 | 20 48 | 21 24 | | | | | * | | | |
| 27 | 19 21 | 4 37 | 11 26 | 21 44 | 23 2 | | | | | | * | ☐ | * |
| 28 | 19 28 | 4 50 | 12 12 | 22 41 | 24 41 | ☿ * h | Δ | | ☐ | | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|-------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | |
| | ' | " | ° | ' | ° | ' | ° | ' | | |
| 1 | 16 | 10 | 0 S | 7 | 23 S | 27 | 18 56 | 58 54 | 08 23 | 19 S 24 |
| 4 | 16 | 9 | 0 | 7 | 23 | 27 | 1 56 | 5 46 | 0 23 | 19 15 |
| 7 | 16 | 8 | 0 | 7 | 23 | 27 | 1 56 | 5 37 | 0 24 | 19 6 |
| 10 | 16 | 8 | 0 | 7 | 23 | 27 | 1 56 | 5 29 | 0 24 | 18 57 |
| 13 | 16 | 7 | 0 | 7 | 23 | 27 | 1 56 | 5 20 | 0 25 | 18 49 |
| 16 | 16 | 6 | 0 | 7 | 23 | 27 | 1 56 | 5 11 | 0 25 | 18 40 |
| 19 | 16 | 5 | 0 | 7 | 23 | 27 | 1 56 | 5 2 | 0 26 | 18 31 |
| 22 | 16 | 4 | 0 | 7 | 23 | 28 | 1 56 | 4 54 | 0 26 | 18 22 |
| 25 | 16 | 3 | 0 | 7 | 23 | 28 | 1 56 | 4 45 | 0 27 | 18 14 |
| 28 | 16 | 3 | 0 | 7 | 23 | 28 | 1 56 | 4 37 | 0 27 | 18 5 |
| 31 | 16 | 2 | 0 | 7 | 23 | 28 | 1 56 | 4 28 | 0 27 | 17 57 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 22 33 49 | 10 7 18 | 7 S 47 | 13 8 31 | 1 N 59 | 17 N 48 | 24 1 7 |
| 2 | Tu | 22 37 46 | 11 7 27 | 7 24 | 26 0 | 2 58 | 22 10 | 24 9 |
| 3 | W | 22 41 42 | 12 7 38 | 7 1 | 8 12 | 3 48 | 25 27 | 24 10 |
| 4 | Th | 22 45 39 | 13 7 37 | 6 38 | 20 13 | 4 27 | 27 33 | 24 12 |
| 5 | F | 22 49 35 | 14 7 39 | 6 15 | 25 6 | 4 54 | 28 21 | 24 13 |
| 6 | S | 22 53 32 | 15 7 39 | 5 52 | 13 58 | 5 8 | 27 51 | 24 14 |
| 7 | S | 22 57 28 | 16 7 37 | 5 29 | 25 51 | 5 10 | 26 4 | 24 16 |
| 8 | M | 23 1 25 | 17 7 32 | 5 5 | 7 50 | 4 57 | 23 7 | 24 17 |
| 9 | Tu | 23 5 22 | 18 7 25 | 4 42 | 19 58 | 4 31 | 19 9 | 24 18 |
| 10 | W | 23 9 18 | 19 7 16 | 4 19 | 2 16 | 3 53 | 14 18 | 24 19 |
| 11 | Th | 23 13 15 | 20 7 5 | 3 55 | 14 45 | 3 8 | 8 49 | 24 20 |
| 12 | F | 23 17 11 | 21 6 53 | 3 32 | 27 28 | 2 2 | 2 52 | 24 21 |
| 13 | S | 23 21 8 | 22 6 38 | 3 8 | 10 23 | 0 55 | 3 S 16 | 24 22 |
| 14 | S | 23 25 4 | 23 6 21 | 2 44 | 23 30 | 0 S 17 | 9 24 | 24 23 |
| 15 | M | 23 29 1 | 24 6 2 | 2 21 | 6 49 | 1 29 | 15 13 | 24 24 |
| 16 | Tu | 23 32 57 | 25 5 42 | 1 57 | 20 21 | 2 37 | 20 23 | 24 25 |
| 17 | W | 23 36 54 | 26 5 19 | 1 33 | 4 4 | 3 37 | 24 32 | 24 25 |
| 18 | Th | 23 40 51 | 27 4 56 | 1 10 | 18 0 | 4 25 | 27 19 | 24 26 |
| 19 | F | 23 44 47 | 28 4 30 | 0 46 | 2 5 | 4 59 | 28 26 | 24 26 |
| 20 | S | 23 48 44 | 29 4 3 | 0 22 | 16 20 | 5 14 | 27 39 | 24 27 |
| 21 | S | 23 52 40 | 0 8 34 | 0 N 1 | 0 42 | 5 10 | 25 3 | 24 27 |
| 22 | M | 23 56 37 | 1 3 3 | 0 25 | 15 7 | 4 46 | 20 52 | 24 27 |
| 23 | Tu | 0 0 33 | 2 2 31 | 0 49 | 29 31 | 4 4 | 15 29 | 24 28 |
| 24 | W | 0 4 30 | 3 1 57 | 1 12 | 13 48 | 3 8 | 9 16 | 24 28 |
| 25 | Th | 0 8 26 | 4 1 21 | 1 36 | 27 54 | 2 0 | 2 41 | 24 28 |
| 26 | F | 0 12 23 | 5 0 43 | 2 0 | 11 48 | 0 47 | 3 N 55 | 24 29 |
| 27 | S | 0 16 19 | 6 0 2 | 2 23 | 25 13 | 0 N 27 | 10 11 | 24 29 |
| 28 | S | 0 20 16 | 6 59 20 | 2 47 | 8 23 | 1 38 | 15 52 | 24 29 |
| 29 | M | 0 24 13 | 7 58 35 | 3 10 | 21 13 | 2 43 | 20 42 | 24 29 |
| 30 | Tu | 0 28 9 | 8 57 49 | 3 33 | 3 44 | 3 38 | 24 29 | 24 29 |
| 31 | W | 0 32 6 | 9 56 59 | 3 57 | 15 59 | 4 23 | 27 4 | 24 29 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 S 5 | 17 S 58 | 3 N 11 | 18 S 16 | 2 S 8 | 14 S 45 | 22 r 38 |
| 4 | 1 6 | 17 18 | 2 56 | 18 3 | 2 10 | 12 59 | 22 29 |
| 7 | 1 7 | 16 37 | 2 36 | 17 44 | 2 8 | 11 2 | 22 19 |
| 10 | 1 8 | 15 54 | 2 20 | 17 30 | 2 1 | 8 52 | 22 10 |
| 13 | 1 9 | 15 11 | 2 1 | 16 57 | 1 50 | 6 32 | 22 0 |
| 16 | 1 9 | 14 25 | 1 45 | 16 24 | 1 35 | 4 1 | 21 51 |
| 19 | 1 10 | 13 38 | 1 27 | 15 53 | 1 14 | 1 20 | 21 41 |
| 22 | 1 11 | 12 51 | 1 12 | 15 12 | 0 48 | 1 N 27 | 21 32 |
| 25 | 1 12 | 12 1 | 0 53 | 14 32 | 0 19 | 4 18 | 21 22 |
| 28 | 1 12 | 11 11 | 0 40 | 13 42 | 0 N 13 | 4 8 | 21 13 |
| 31 | 1 12 | 10 20 | 0 23 | 12 50 | 0 49 | 9 52 | 21 3 |

| D
M | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|-------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♁ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 19 x 36 | 5 m 3 | 12 x 59 | 23 w 38 | 26 m 21 | | | * | | * | | □ | |
| 2 | 19 43 | 5 16 | 13 45 | 24 35 | 28 2 | | | | | | | Δ | □ |
| 3 | 19 50 | 5 29 | 14 32 | 25 33 | 29 44 | | | □ | | | Δ | | |
| 4 | 19 58 | 5 41 | 15 18 | 26 32 | 1 x 28 | | | | ♄ | □ | | Δ | |
| 5 | 20 6 | 5 54 | 16 5 | 27 31 | 3 13 | | | | | | | | Δ |
| 6 | 20 12 | 6 7 | 16 52 | 28 30 | 4 58 | | | Δ | | | | | |
| 7 | 20 20 | 6 19 | 17 39 | 29 30 | 6 44 | | | | | Δ | | | ♄ |
| 8 | 20 27 | 6 31 | 18 25 | 0 m 30 | 8 31 | | | | | | ♄ | | ♄ |
| 9 | 20 34 | 6 44 | 19 12 | 1 31 | 10 20 | | | | Δ | | | ♄ | |
| 10 | 20 42 | 6 56 | 19 58 | 2 32 | 12 10 | | | | | | | | |
| 11 | 20 49 | 7 8 | 20 45 | 3 33 | 14 1 | | | ♄ | | ♄ | | | ♄ |
| 12 | 20 56 | 7 20 | 21 32 | 4 34 | 15 53 | ☉ ☿ ♄ | | ☉ | ☿ | ♄ | | | |
| 13 | 21 4 | 7 32 | 22 19 | 5 35 | 17 46 | ☿ ☿ ♄ | | | | | Δ | Δ | |
| 14 | 21 11 | 7 44 | 23 5 | 6 37 | 19 40 | ☿ ☿ ♄ | | * | | | Δ | | |
| 15 | 21 19 | 7 56 | 23 52 | 7 39 | 21 35 | ☉ ☉ ☿ | | | | | □ | □ | |
| 16 | 21 26 | 8 7 | 24 38 | 8 42 | 23 32 | ♄ * ☿ | | Δ | | Δ | | □ | Δ |
| 17 | 21 34 | 8 19 | 25 25 | 9 45 | 25 30 | ☿ ☉ ☿ | | | | | * | * | |
| 18 | 21 41 | 8 31 | 26 12 | 10 48 | 27 29 | ☉ ☉ ☿ | | | ☿ | □ | | | |
| 19 | 21 49 | 8 42 | 26 59 | 11 51 | 29 28 | | | □ | | | | * | □ |
| 20 | 21 56 | 8 54 | 27 45 | 12 55 | 1 r 28 | | | | | * | | | |
| 21 | 22 3 | 9 5 | 28 32 | 13 59 | 3 29 | | | * | | | | | * |
| 22 | 22 11 | 9 16 | 29 19 | 15 4 | 5 31 | | | | | | ☿ | ☿ | |
| 23 | 22 18 | 9 28 | 0 x 6 | 16 8 | 7 33 | | | | * | | | ☿ | |
| 24 | 22 26 | 9 39 | 0 53 | 17 12 | 9 35 | | | | | | | | |
| 25 | 22 33 | 9 50 | 1 40 | 18 17 | 11 36 | | | ☿ | □ | ☿ | | | |
| 26 | 22 40 | 10 1 | 2 26 | 19 22 | 13 37 | | | | | | * | | ☿ |
| 27 | 22 47 | 10 12 | 3 13 | 20 28 | 15 37 | | | | Δ | | | * | |
| 28 | 22 55 | 10 22 | 3 59 | 21 33 | 17 37 | | | | | | □ | * | |
| 29 | 23 2 | 10 33 | 4 46 | 22 39 | 19 35 | | | | | * | | | □ |
| 30 | 23 10 | 10 44 | 5 33 | 23 45 | 21 31 | | | * | | | | □ | |
| 31 | 23 17 | 10 54 | 6 20 | 24 51 | 23 25 | ☿ * ☿ | | | | | Δ | | |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 08 | 7 | 28 57 | 48 26 | 08 28 | 17 55 |
| 4 | 16 | 0 | 0 | 7 | 28 28 | 4 17 | 0 28 | 17 49 |
| 7 | 15 | 59 | 0 | 7 | 28 28 | 4 9 | 0 29 | 17 40 |
| 10 | 15 | 58 | 0 | 7 | 28 28 | 4 1 | 0 29 | 17 33 |
| 13 | 15 | 58 | 0 | 7 | 28 28 | 3 53 | 0 30 | 17 26 |
| 16 | 15 | 57 | 0 | 7 | 28 28 | 3 46 | 0 31 | 17 19 |
| 19 | 15 | 56 | 0 | 7 | 28 28 | 3 0 | 0 31 | 17 13 |
| 22 | 15 | 56 | 0 | 7 | 28 28 | 3 0 | 0 32 | 17 5 |
| 25 | 15 | 55 | 0 | 7 | 28 28 | 3 0 | 0 33 | 16 59 |
| 28 | 15 | 54 | 0 | 7 | 28 28 | 3 16 | 0 33 | 16 53 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 0 36 2 | 10 56 8 | 4 N 20 | 21 11 2 | 4 N 53 | 28 N 20 | 24 29 |
| 2 | F | 0 39 59 | 11 56 14 | 4 N 19 | 9 55 58 | 5 11 28 | 16 16 | 24 29 |
| 3 | S | 0 43 55 | 12 54 18 | 5 6 | 21 51 | 5 16 26 | 53 | 24 29 |
| 4 | S | 0 47 52 | 13 53 19 | 5 29 | 3 2 45 | 5 6 24 | 19 | 24 29 |
| 5 | M | 0 51 48 | 14 52 18 | 5 52 | 15 46 | 4 46 20 | 40 | 24 28 |
| 6 | Tu | 0 56 45 | 15 51 15 | 6 15 | 27 66 | 4 11 16 | 8 | 24 28 |
| 7 | W | 0 59 42 | 16 50 9 | 6 37 | 10 21 | 3 24 10 | 50 | 24 28 |
| 8 | Th | 1 3 38 | 17 49 2 | 7 0 | 23 1 | 3 26 5 | 1 | 24 28 |
| 9 | F | 1 7 35 | 18 47 52 | 7 22 | 5 58 | 1 19 18 | 10 | 24 27 |
| 10 | S | 1 11 31 | 19 46 40 | 7 45 | 19 13 | 0 6 7 | 27 | 24 27 |
| 11 | S | 1 16 28 | 20 45 26 | 8 7 | 2 44 | 1 8 13 | 30 | 24 26 |
| 12 | M | 1 19 24 | 21 44 10 | 8 28 | 16 30 | 2 20 19 | 2 | 24 26 |
| 13 | 1 | | | | | | 37 | 24 25 |
| 14 | 1 | | | | | | 50 | 24 24 |
| 15 | 1 | | | | | | 33 | 24 24 |
| 16 | 1 | | | | | | 2 | 24 23 |
| 17 | 1 | | | | | | 52 | 24 23 |
| 18 | 1 | | | | | | 5 | 24 21 |
| 19 | 1 | | | | | | 5 | 24 20 |
| 20 | 1 | | | | | | 11 12 | 24 19 |
| 21 | W | 1 54 53 | 0 31 33 | 11 41 | 23 21 | 2 24 4 | 51 | 24 17 |
| 22 | Th | 1 58 50 | 1 30 1 | 12 1 | 6 58 | 1 13 1 | N 39 | 24 16 |
| 23 | F | 2 2 46 | 2 28 27 | 12 21 | 20 22 | 0 N 0 | 7 58 | 24 15 |
| 24 | S | 2 6 43 | 3 26 51 | 12 41 | 3 33 | 1 12 13 | 51 | 24 14 |
| 25 | S | 2 10 40 | 4 25 14 | 13 0 | 16 28 | 2 19 19 | 1 | 24 13 |
| 26 | M | 2 | | | | | | |
| 27 | Tu | 2 | | | | | | |
| 28 | W | 2 | | | | | | |
| 29 | Th | 2 | | | | | | |
| 30 | F | 2 | | | | | | |

| 10 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1819. |
|----------------|-------------------|-----------------------------------|-----------|---|---------|----|---------|---|---------|----|----------|--------|
| MAY XXXI DAYS. | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | | | Saturn. | | | | Jupiter. | |
| | | | Lat. | | Declin. | | Lat. | | Declin. | | Lat. | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 8 | 8 | 23 8 | 28 | 2 8 | 1 | 3 8 | 9 | 0 8 | 34 |
| 4 | 15 | 54 | 0 | 8 | 23 | 28 | 2 | 1 | 3 | 3 | 0 | 34 |
| 7 | 15 | 53 | 0 | 8 | 23 | 28 | 2 | 2 | 2 | 56 | 0 | 35 |
| 10 | 15 | 52 | 0 | 8 | 23 | 27 | 2 | 3 | 2 | 50 | 0 | 35 |
| 13 | 15 | 51 | 0 | 8 | 23 | 27 | 2 | 4 | 2 | 44 | 0 | 36 |
| 16 | 15 | 51 | 0 | 8 | 23 | 27 | 2 | 4 | 2 | 38 | 0 | 37 |
| 19 | 15 | 50 | 0 | 8 | 23 | 27 | 2 | 5 | 2 | 33 | 0 | 38 |
| 22 | 15 | 50 | 0 | 8 | 23 | 26 | 2 | 5 | 2 | 28 | 0 | 38 |
| 25 | 15 | 49 | 0 | 8 | 23 | 26 | 2 | 6 | 2 | 23 | 0 | 39 |
| 28 | 15 | 49 | 0 | 8 | 23 | 26 | 2 | 6 | 2 | 18 | 0 | 39 |
| 31 | 15 | 48 | 0 | 8 | 23 | 26 | 2 | 7 | 2 | 13 | 0 | 40 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / ' " | ° / ' | ° / ' | ° / ' | ° / ' | ° / ' |
| 1 | S | 2 34 19 | 10 8 14 48 | 14 N 54 | 29 54 40 | 5 N 10 | 25 N 18 | 24 7 4 |
| 2 | S | 2 38 15 | 11 12 57 | 15 13 | 11 52 35 | 4 53 | 22 1 | 24 3 3 |
| 3 | M | 2 42 12 | 12 11 3 | 15 31 | 23 24 | 4 23 | 17 48 | 24 2 |
| 4 | Tu | 2 46 9 | 13 9 8 | 15 48 | 5 45 | 3 41 | 12 50 | 24 0 |
| 5 | W | 2 50 5 | 14 7 11 | 16 6 | 18 10 | 2 47 | 7 15 | 23 58 |
| 6 | Th | 2 54 2 | 15 5 12 | 16 23 | 0 55 | 1 44 | 1 14 | 23 56 |
| 7 | F | 2 57 58 | 16 3 11 | 16 40 | 14 1 | 0 34 | 5 8 | 23 54 |
| 8 | S | 3 1 55 | 17 1 8 | 16 56 | 27 30 | 0 8 40 | 11 13 | 23 52 |
| 9 | S | 3 5 52 | 17 59 4 | 17 13 | 11 21 | 1 53 | 17 3 | 23 50 |
| 10 | M | 3 9 48 | 18 56 58 | 17 29 | 25 32 | 3 1 | 22 6 | 23 49 |
| 11 | Tu | 3 13 44 | 19 54 51 | 17 44 | 9 59 | 3 59 | 25 55 | 23 47 |
| 12 | W | 3 17 41 | 20 52 42 | 18 0 | 24 34 | 4 42 | 28 3 | 23 45 |
| 13 | Th | 3 21 38 | 21 50 32 | 18 15 | 9 12 | 5 6 | 28 14 | 23 43 |
| 14 | F | 3 25 34 | 22 48 21 | 18 30 | 23 46 | 5 11 | 26 28 | 23 41 |
| 15 | S | 3 29 31 | 23 46 9 | 18 44 | 8 11 | 4 56 | 23 0 | 23 39 |
| 16 | S | 3 33 27 | 24 43 55 | 18 58 | 22 24 | 4 23 | 18 12 | 23 37 |
| 17 | M | 3 37 24 | 25 41 41 | 19 12 | 6 21 | 3 35 | 12 31 | 23 34 |
| 18 | Tu | 3 41 20 | 26 39 25 | 19 26 | 20 4 | 2 35 | 6 19 | 23 32 |
| 19 | W | 3 45 17 | 27 37 9 | 19 39 | 3 31 | 1 28 | 0 N 3 | 23 30 |
| 20 | Th | 3 49 13 | 28 34 52 | 19 52 | 16 45 | 0 17 | 6 20 | 23 28 |
| 21 | F | 3 53 10 | 29 32 34 | 20 5 | 29 46 | 0 N 53 | 12 14 | 23 26 |
| 22 | S | 3 57 7 | 0 30 14 | 20 17 | 12 35 | 2 0 | 17 32 | 23 24 |
| 23 | S | 4 1 3 | 1 27 53 | 20 29 | 25 12 | 2 59 | 21 59 | 23 21 |
| 24 | M | 4 5 0 | 2 25 32 | 20 40 | 7 39 | 3 49 | 25 23 | 23 19 |
| 25 | Tu | 4 8 56 | 3 23 8 | 20 51 | 19 56 | 4 28 | 27 32 | 23 17 |
| 26 | W | 4 12 53 | 4 20 44 | 21 2 | 25 3 | 4 54 | 28 20 | 23 14 |
| 27 | Th | 4 16 49 | 5 18 19 | 21 13 | 14 3 | 5 6 | 27 48 | 23 12 |
| 28 | F | 4 20 46 | 6 15 52 | 21 23 | 25 57 | 5 5 | 25 59 | 23 10 |
| 29 | S | 4 24 42 | 7 13 24 | 21 32 | 7 48 | 4 51 | 23 2 | 23 7 |
| 30 | S | 4 28 39 | 8 10 54 | 21 42 | 19 41 | 4 25 | 19 7 | 23 5 |
| 31 | M | 4 32 36 | 9 8 23 | 21 51 | 1 39 | 3 47 | 14 25 | 23 3 |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Decl'n. | Lat. | Declin. |
| 1 | 15 | 48 | 0 8 | 23 25 | 2 8 | 2 13 | 0 41 | 16 21 |
| 4 | 15 | 48 | 0 8 | 23 25 | 2 8 | 2 9 | 0 41 | 16 21 |
| 7 | 15 | 47 | 0 8 | 23 25 | 2 9 | 2 5 | 0 42 | 16 22 |
| 10 | 15 | 47 | 0 8 | 23 24 | 2 10 | 2 2 | 0 43 | 16 23 |
| 13 | 15 | 46 | 0 8 | 23 24 | 2 11 | 1 59 | 0 44 | 16 25 |
| 16 | 15 | 46 | 0 8 | 23 23 | 2 11 | 1 57 | 0 44 | 16 27 |
| 19 | 15 | 46 | 0 8 | 23 23 | 2 12 | 1 54 | 0 45 | 16 30 |
| 22 | 15 | 46 | 0 8 | 23 22 | 2 13 | 1 52 | 0 46 | 16 33 |
| 25 | 15 | 46 | 0 8 | 23 22 | 2 14 | 1 50 | 0 47 | 16 37 |
| 28 | 15 | 45 | 0 8 | 23 22 | 2 14 | 1 48 | 0 47 | 16 41 |

| D
M | D
W | Siderea'
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 4 36 32 | 10 5 51 | 21 N 59 | 13 47 | 2 N 58 | 9 N 7 | 23 1 |
| 2 | W | 4 40 29 | 11 3 18 | 22 8 26 | 10 1 | 1 59 | 3 21 | 23 59 |
| 3 | Th | 4 44 25 | 12 0 44 | 22 15 8 | 53 0 | 54 2 S 42 | 22 56 | |
| 4 | F | 4 48 22 | 12 58 8 | 22 23 22 | 1 0 S 16 | 8 50 | 22 54 | |
| 5 | S | 4 52 18 | 13 55 31 | 22 30 5 | 34 1 | 28 14 | 46 22 | 51 |
| 6 | S | 4 56 15 | 14 52 54 | 22 36 19 | 36 2 | 36 20 | 9 22 | 49 |
| 7 | M | 5 0 11 | 15 50 14 | 22 43 4 | 2 3 | 37 24 | 32 22 | 47 |
| 8 | Tu | 5 4 8 | 16 47 34 | 22 49 18 | 50 4 | 24 27 | 23 22 | 44 |
| 9 | W | 5 8 5 | 17 44 54 | 22 54 3 | 49 4 | 54 28 | 18 22 | 41 |
| 10 | Th | 5 12 1 | 18 42 13 | 22 59 18 | 52 5 | 4 27 | 9 22 | 39 |
| 11 | F | 5 15 58 | 19 39 32 | 23 4 8 | 49 4 | 53 24 | 4 22 | 37 |
| 12 | S | 5 19 54 | 20 36 49 | 23 8 18 | 31 4 | 23 19 | 27 22 | 34 |
| 13 | S | 5 23 51 | 21 34 7 | 23 12 2 | 54 3 | 37 13 | 49 22 | 31 |
| 14 | M | 5 27 47 | 22 31 24 | 23 15 16 | 54 2 | 28 7 | 37 22 | 29 |
| 15 | Tu | 5 31 44 | 23 28 41 | 23 18 0 | 32 1 | 32 1 | 12 22 | 26 |
| 16 | W | 5 35 40 | 24 25 58 | 23 21 13 | 50 0 | 23 5 N 7 | 22 23 | |
| 17 | Th | 5 39 37 | 25 23 15 | 23 22 26 | 49 0 | N 46 11 | 4 22 | 21 |
| 18 | F | 5 43 34 | 26 20 32 | 23 25 9 | 33 1 | 51 16 | 27 22 | 19 |
| 19 | S | 5 47 30 | 27 17 48 | 23 26 22 | 5 2 | 50 21 | 3 22 | 17 |
| 20 | S | 5 51 27 | 28 15 4 | 23 27 4 | 27 3 | 40 24 | 39 22 | 15 |
| 21 | M | 5 55 23 | 29 12 20 | 23 28 16 | 40 4 | 18 27 | 5 22 | 13 |
| 22 | Tu | 5 59 20 | 0 9 36 | 23 28 28 | 46 4 | 45 28 | 13 22 | 11 |
| 23 | W | 6 3 16 | 1 6 51 | 23 28 10 | 46 4 | 59 27 | 59 22 | 9 |
| 24 | Th | 6 7 13 | 2 4 6 | 23 27 22 | 41 4 | 59 26 | 28 22 | 7 |
| 25 | F | 6 11 9 | 3 1 20 | 23 26 4 | 33 4 | 47 23 | 47 22 | 4 |
| 26 | S | 6 15 6 | 3 58 34 | 23 24 16 | 24 4 | 22 20 | 6 22 | 3 |
| 27 | S | 6 19 3 | 4 55 48 | 23 22 28 | 16 3 | 46 15 | 37 22 | 0 |
| 28 | M | 6 22 59 | 5 53 1 | 23 20 10 | 13 2 | 59 10 | 30 21 | 57 |
| 29 | Tu | 6 26 56 | 6 50 14 | 23 17 22 | 20 2 | 4 4 | 57 21 | 54 |
| 30 | W | 6 30 52 | 7 47 26 | 23 14 4 | 40 1 | 2 0 8 | 55 21 | 51 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 18 8 | 8 N 14 | 18 53 | 11 N 54 | 38 24 | 13 N 22 | 17 r 45 |
| 2 | 1 7 | 9 4 | 1 51 | 13 4 | 8 8 | 14 35 | 17 35 |
| 7 | 1 6 | 9 53 | 1 48 | 14 12 | 8 48 | 15 57 | 17 26 |
| 10 | 1 5 | 10 40 | 1 45 | 15 16 | 8 19 | 17 25 | 17 16 |
| 11 | 1 8 | 11 28 | 1 41 | 16 19 | 1 49 | 18 54 | 17 7 |
| 16 | 1 1 | 12 14 | 1 36 | 17 16 | 1 16 | 20 22 | 16 57 |
| 19 | 1 0 | 12 59 | 1 31 | 18 13 | 0 42 | 21 44 | 16 48 |
| 22 | 0 59 | 13 42 | 1 26 | 19 3 | 0 8 | 22 54 | 16 38 |
| 25 | 0 57 | 14 25 | 1 20 | 19 52 | 0 N 35 | 23 48 | 16 29 |
| 28 | 0 55 | 15 6 | 1 14 | 20 33 | 0 54 | 24 21 | 16 19 |

| D
M | h | | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|---------|-------|--------|-------|-------|-------|------------------|----------------|---|---|---|-----|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 29 x 23 | 17 m 11 | 23 r 54 | 68 25 | 158 54 | | | | ☿ ☐ ♈ | ☐ | | | | | | Δ |
| 2 | 29 26 | 17 12 | 24 39 | 7 36 | 16 59 | | | | ☿ ☐ ♈ | ☐ | ☿ | | | | | |
| 3 | 29 30 | 17 12 | 25 24 | 8 47 | 18 7 | | | | | Δ | | | | | | |
| 4 | 29 34 | 17 12 | 26 8 | 9 58 | 19 22 | | | | | | * | | Δ | ☿ | | |
| 5 | 29 37 | 17 12 | 26 53 | 11 9 | 20 39 | | | | | | | | | | ☿ | |
| 6 | 29 41 | 17 12 | 27 38 | 12 21 | 21 58 | | | | | | | | | | | |
| 7 | 29 44 | 17 12 | 28 22 | 13 33 | 23 18 | | | | | | | | | | | |
| 8 | 29 48 | 17 12 | 29 6 | 14 44 | 24 42 | | | | | | | | | | | |
| 9 | 29 51 | 17 11 | 29 51 | 15 56 | 26 9 | | | | | | | | | | | |
| 10 | 29 54 | 17 10 | 08 35 | 17 7 | 27 40 | | | | | | | | | | | |
| 11 | 29 57 | 17 9 | 1 20 | 18 19 | 29 14 | | | | | | | | | | | |
| 12 | 0 r 0 | 17 8 | 2 4 | 19 30 | 0 50 | | | | | | | | | | | |
| 13 | 0 3 | 17 7 | 2 48 | 20 42 | 2 28 | | | | | | | | | | | |
| 14 | 0 6 | 17 5 | 3 32 | 21 53 | 4 9 | | | | | | | | | | | |
| 15 | 0 9 | 17 3 | 4 16 | 23 5 | 5 54 | | | | | | | | | | | |
| 16 | 0 11 | 17 1 | 5 0 | 24 16 | 7 42 | | | | | | | | | | | |
| 17 | 0 14 | 16 59 | 5 44 | 25 28 | 9 32 | | | | | * | | | | | | |
| 18 | 0 16 | 16 57 | 6 28 | 26 40 | 11 24 | | | | | | | | | | ☿ | |
| 19 | 0 18 | 16 55 | 7 12 | 27 52 | 13 19 | | | | | | | | ☐ | | | |
| 20 | 0 21 | 16 52 | 7 56 | 29 3 | 15 16 | | | | | | | * | | | | ☿ |
| 21 | 0 23 | 16 49 | 8 39 | 0 15 | 17 16 | ☿ * ♈ | | | | ☿ | ☿ | | | Δ | | ☿ |
| 22 | 0 25 | 16 46 | 9 23 | 1 27 | 19 18 | ☉ ☐ ♈ | | | | ☿ | ☿ | ☐ | | | | |
| 23 | 0 27 | 16 43 | 10 6 | 2 39 | 21 22 | ☿ ☐ ♈ | | | | | | | | | * | |
| 24 | 0 29 | 16 40 | 10 50 | 3 51 | 23 28 | | | | | | | | | | | |
| 25 | 0 31 | 16 37 | 11 33 | 5 3 | 25 35 | | | | | | | | Δ | | | * |
| 26 | 0 33 | 16 33 | 12 17 | 6 11 | 27 44 | | | | | | | | | ☿ ☐ | | |
| 27 | 0 34 | 16 29 | 13 0 | 7 27 | 29 53 | | | | | | Δ | | | | | * |
| 28 | 0 36 | 16 25 | 13 43 | 8 39 | 25 4 | | | | | * | | | | | Δ | |
| 29 | 0 37 | 16 21 | 14 26 | 9 51 | 4 14 | | | | | | ☐ | | | | | |
| 30 | 0 38 | 16 17 | 15 9 | 11 3 | 6 24 | | | | | ☐ | | ☿ | | | | ☐ |

| 14 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1819. | | | | | |
|-----------------|-------------------|-----------------------------------|-----------|------------|---------|-------------|----------|------------|------|-----------|------|-------------|------|------------|------|----|----|
| JULY XXXI DAYS. | | | | | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | | | |
| | | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | |
| 1 | 15 | 45 | 0 S | 8 | 23 S | 21 | 2 S | 16 | 1 S | 49 | 0 S | 48 | 16 S | 46 | | | |
| 4 | 15 | 45 | 0 | 8 | 23 | 21 | 2 | 16 | 1 | 48 | 0 | 49 | 16 | 51 | | | |
| 7 | 15 | 45 | 0 | 8 | 23 | 21 | 2 | 17 | 1 | 48 | 0 | 50 | 16 | 57 | | | |
| 10 | 15 | 46 | 0 | 8 | 23 | 20 | 2 | 18 | 1 | 49 | 0 | 50 | 17 | 3 | | | |
| 13 | 15 | 46 | 0 | 8 | 23 | 20 | 2 | 19 | 1 | 49 | 0 | 51 | 17 | 8 | | | |
| 16 | 15 | 46 | 0 | 8 | 23 | 19 | 2 | 20 | 1 | 50 | 0 | 51 | 17 | 14 | | | |
| 19 | 15 | 46 | 0 | 8 | 23 | 19 | 2 | 21 | 1 | 52 | 0 | 52 | 17 | 21 | | | |
| 22 | 15 | 46 | 0 | 8 | 23 | 18 | 2 | 21 | 1 | 53 | 0 | 52 | 17 | 28 | | | |
| 25 | 15 | 47 | 0 | 8 | 23 | 18 | 2 | 22 | 1 | 55 | 0 | 53 | 17 | 35 | | | |
| 28 | 15 | 47 | 0 | 8 | 23 | 18 | 2 | 22 | 1 | 57 | 0 | 53 | 17 | 42 | | | |
| 31 | 15 | 47 | 0 | 8 | 23 | 18 | 2 | 23 | 2 | 0 | 0 | 53 | 17 | 49 | | | |
| D
M | D
W | Siderea ^l
Time. | | ☉
Long. | | ☉
Declin | | ☽
Long. | | ☽
Lat. | | ☽
Declin | | ♃
Long. | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | | |
| 1 | Th | 6 | 34 | 49 | 8 | 44 | 39 | 23 | N 11 | 17 | 20 | 0 | S 5 | 6 | S 53 | 21 | 49 |
| 2 | F | 6 | 38 | 45 | 9 | 41 | 51 | 23 | 7 | 0 | m 23 | 1 | 13 | 12 | 45 | 21 | 47 |
| 3 | S | 6 | 42 | 42 | 10 | 39 | 2 | 23 | 2 | 13 | 54 | 2 | 19 | 18 | 15 | 21 | 44 |
| 4 | S | 6 | 46 | 39 | 11 | 36 | 13 | 22 | 58 | 27 | 54 | 3 | 20 | 22 | 58 | 21 | 42 |
| 5 | M | 6 | 50 | 35 | 12 | 33 | 24 | 22 | 52 | 12 | 23 | 4 | 10 | 26 | 26 | 21 | 39 |
| 6 | Tu | 6 | 54 | 32 | 13 | 30 | 35 | 22 | 47 | 27 | 17 | 4 | 44 | 28 | 11 | 21 | 37 |
| 7 | W | 6 | 58 | 28 | 14 | 27 | 45 | 22 | 41 | 12 | v 29 | 5 | 0 | 27 | 51 | 21 | 35 |
| 8 | Th | 7 | 2 | 25 | 15 | 24 | 56 | 22 | 34 | 27 | 47 | 4 | 54 | 25 | 25 | 21 | 32 |
| 9 | F | 7 | 6 | 21 | 16 | 22 | 7 | 22 | 28 | 13 | m 0 | 4 | 27 | 21 | 11 | 21 | 30 |
| 10 | S | 7 | 10 | 18 | 17 | 19 | 19 | 22 | 21 | 27 | 59 | 3 | 42 | 15 | 40 | 21 | 28 |
| 11 | S | 7 | 14 | 14 | 18 | 16 | 31 | 22 | 13 | 12 | x 35 | 2 | 44 | 9 | 22 | 21 | 27 |
| 12 | M | 7 | 18 | 11 | 19 | 13 | 43 | 22 | 5 | 26 | 44 | 1 | 37 | 2 | 47 | 21 | 25 |
| 13 | Tu | 7 | 22 | 8 | 20 | 10 | 56 | 21 | 57 | 10 | r 27 | 0 | 26 | 3 | N 45 | 21 | 23 |
| 14 | W | 7 | 26 | 4 | 21 | 8 | 10 | 21 | 48 | 23 | 44 | 0 | N 44 | 9 | 54 | 21 | 22 |
| 15 | Th | 7 | 30 | 1 | 22 | 5 | 25 | 21 | 39 | 6 | x 39 | 1 | 50 | 15 | 29 | 21 | 20 |
| 16 | F | 7 | 33 | 57 | 23 | 2 | 40 | 21 | 30 | 19 | 15 | 2 | 49 | 20 | 16 | 21 | 18 |
| 17 | S | 7 | 37 | 54 | 23 | 59 | 56 | 21 | 20 | 1 | □ 37 | 3 | 39 | 24 | 4 | 21 | 16 |
| 18 | S | 7 | 41 | 50 | 24 | 57 | 13 | 21 | 10 | 13 | 48 | 4 | 17 | 26 | 44 | 21 | 14 |
| 19 | M | 7 | 45 | 47 | 25 | 54 | 30 | 20 | 59 | 25 | 52 | 4 | 44 | 28 | 8 | 21 | 11 |
| 20 | Tu | 7 | 49 | 43 | 26 | 51 | 48 | 20 | 48 | 7 | ☐ 50 | 4 | 58 | 28 | 12 | 21 | 9 |
| 21 | W | 7 | 53 | 40 | 27 | 49 | 7 | 20 | 37 | 19 | 44 | 4 | 59 | 26 | 56 | 21 | 7 |
| 22 | Th | 7 | 57 | 37 | 28 | 46 | 26 | 20 | 26 | 1 | Ω 36 | 4 | 47 | 24 | 29 | 21 | 5 |
| 23 | F | 8 | 1 | 33 | 29 | 43 | 46 | 20 | 14 | 13 | 27 | 4 | 22 | 20 | 59 | 21 | 3 |
| 24 | S | 8 | 5 | 30 | 0 | Ω 41 | 6 | 20 | 2 | 25 | 19 | 3 | 46 | 16 | 39 | 21 | 1 |
| 25 | S | 8 | 9 | 26 | 1 | 38 | 27 | 19 | 49 | 7 | m 16 | 3 | 0 | 11 | 39 | 20 | 59 |
| 26 | M | 8 | 13 | 23 | 2 | 35 | 49 | 19 | 36 | 19 | 15 | 2 | 6 | 6 | 11 | 20 | 57 |
| 27 | Tu | 8 | 17 | 19 | 3 | 33 | 11 | 19 | 23 | 1 | △ 24 | 1 | 5 | 0 | 26 | 20 | 56 |
| 28 | W | 8 | 21 | 16 | 4 | 30 | 33 | 19 | 9 | 13 | 46 | 0 | S 1 | 5 | S 27 | 20 | 55 |
| 29 | Th | 8 | 25 | 12 | 5 | 27 | 57 | 18 | 55 | 26 | 24 | 1 | 7 | 11 | 15 | 20 | 53 |
| 30 | F | 8 | 29 | 9 | 6 | 25 | 20 | 18 | 41 | 9 | m 24 | 2 | 13 | 16 | 44 | 20 | 52 |
| 31 | S | 8 | 33 | 6 | 7 | 22 | 44 | 18 | 27 | 22 | 49 | 3 | 13 | 21 | 36 | 20 | 51 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 8 54 | 15 N 45 | 18 6 | 21 N 12 | 1 N 18 | 24 N 29 | 16 r 10 |
| 4 | 0 52 | 16 23 | 0 59 | 21 45 | 1 35 | 24 12 | 16 0 |
| 7 | 0 50 | 17 0 | 0 52 | 22 11 | 1 46 | 23 31 | 15 51 |
| 10 | 0 48 | 17 35 | 0 45 | 22 30 | 1 50 | 23 30 | 15 41 |
| 13 | 0 46 | 18 8 | 0 37 | 22 49 | 1 43 | 21 12 | 15 32 |
| 16 | 0 44 | 18 39 | 0 30 | 23 0 | | | 15 22 |
| 19 | 0 43 | 19 11 | 0 21 | 23 4 | | | 15 13 |
| 22 | 0 39 | 19 45 | 0 13 | 23 8 | | | 15 3 |
| 25 | 0 37 | 20 6 | 0 5 | 23 54 | | | 14 54 |
| 28 | 0 35 | 20 32 | 0 N 3 | 22 39 | | | 14 44 |
| 31 | 0 33 | 20 56 | 0 11 | 22 18 | | | 14 35 |

| D
M | h
Long. | M
Long. | ♂
Long. | ♀
Long. | ♂
Long. | ♀
Long. | Mutual
Aspta. | Lunar
Aspects. |
|--------|------------|------------|------------|------------|------------|------------|------------------|-------------------|
| | | | | | | | | |
| 1 | 0 39 16 | 12 15 | 52 12 | 11 16 | 8 35 | ☉ ☽ ♀ | * | Δ |
| 2 | 0 40 16 | 7 16 | 85 13 | 28 10 | 46 | ♂ ☐ ♀ | | |
| 3 | 0 41 16 | 2 17 | 18 14 | 40 12 | 65 | ♀ Δ ♀ | Δ | ☐ ♀ |
| 4 | 0 42 16 | 57 18 | 1 15 | 53 15 | 4 | ♀ Δ ♀ | | Δ |
| 5 | 0 43 15 | 52 18 | 44 17 | 6 17 | 12 | | | * |
| 6 | 0 44 15 | 47 19 | 27 18 | 17 19 | 18 | ♀ * ♂ | ♂ | ☐ |
| 7 | 0 44 15 | 41 20 | 9 19 | 30 21 | 23 | | ♂ | * |
| 8 | 0 44 15 | 35 20 | 52 20 | 42 23 | 27 | | | * |
| 9 | 0 45 15 | 29 21 | 34 21 | 55 25 | 29 | ♀ ♂ ☐ | | |
| 10 | 0 45 15 | 23 22 | 16 23 | 7 27 | 29 | | * | |
| 11 | 0 45 15 | 17 22 | 58 24 | 20 29 | 27 | ♀ Δ h | Δ | |
| 12 | 0 46 15 | 11 23 | 40 25 | 82 1 | 24 | | | ☐ ☽ |
| 13 | 0 46 15 | 5 24 | 22 26 | 45 3 | 19 | | | |
| 14 | 0 46 14 | 58 25 | 4 27 | 57 5 | 13 | | ☐ Δ | |
| 15 | 0 45 14 | 52 25 | 46 29 | 10 7 | 5 | | | |
| 16 | 0 45 14 | 45 26 | 28 0 | 22 8 | 54 | ♀ ☐ h | * | ☐ |
| 17 | 0 44 14 | 39 27 | 10 1 | 35 10 | 41 | | | * |
| 18 | 0 44 14 | 32 27 | 52 2 | 48 12 | 27 | | | Δ |
| 19 | 0 43 14 | 25 28 | 33 4 | 1 14 | 12 | ♀ ♂ ♀ | ♂ | ☐ |
| 20 | 0 43 14 | 18 29 | 15 5 | 14 15 | 55 | | | |
| 21 | 0 42 14 | 11 29 | 56 6 | 27 17 | 35 | | | |
| 22 | 0 41 14 | 3 0 | 37 7 | 40 19 | 13 | ♂ * h | ☽ | Δ |
| 23 | 0 40 13 | 56 1 | 18 8 | 53 20 | 49 | ♀ Δ ☐ | | ♂ |
| 24 | 0 39 13 | 49 1 | 59 10 | 6 23 | 24 | ☉ Δ h | Δ | |
| 25 | 0 38 13 | 41 2 | 40 11 | 19 23 | 58 | | | ☐ * |
| 26 | 0 37 13 | 34 3 | 21 12 | 32 25 | 30 | | * | ☐ |
| 27 | 0 35 13 | 26 4 | 2 13 | 45 27 | 0 | | * | ♂ |
| 28 | 0 34 13 | 19 4 | 43 14 | 58 28 | 27 | | | Δ |
| 29 | 0 32 13 | 11 5 | 24 16 | 11 29 | 52 | ☉ * ♂ | * | |
| 30 | 0 31 13 | 4 6 | 5 17 | 24 1 | 16 | | ☐ | ☐ |
| 31 | 0 29 12 | 56 6 | 45 18 | 37 2 | 38 | | | Δ |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 8 | 23 S 17 | 2 24 | 2 8 1 | 0 54 | 17 S 51 |
| 4 | 15 | 47 | 0 8 | 23 17 | 2 24 | 2 4 | 0 54 | 17 58 |
| 7 | 15 | 48 | 0 8 | 23 17 | 2 25 | 2 8 | 0 55 | 18 5 |
| 10 | 15 | 48 | 0 8 | 23 17 | 2 26 | 2 12 | 0 55 | 18 12 |
| 13 | 15 | 49 | 0 8 | 23 17 | 2 27 | 2 16 | 0 56 | 18 19 |
| 16 | 15 | 49 | 0 8 | 23 17 | 2 27 | 2 20 | 0 56 | 18 26 |
| 19 | 15 | 50 | 0 8 | 23 16 | 2 28 | 2 25 | 0 56 | 18 32 |
| 22 | 15 | 50 | 0 8 | 23 16 | 2 28 | 2 29 | 0 56 | 18 38 |
| 25 | 15 | 51 | 0 8 | 23 16 | 2 29 | 2 34 | 0 56 | 18 44 |
| 28 | 15 | 51 | 0 8 | 23 16 | 2 29 | 2 39 | 0 56 | 18 50 |
| 31 | 15 | 52 | 0 8 | 23 16 | 2 30 | 2 45 | 0 56 | 18 55 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 8 37 2 | 8 20 9 | 18 N 12 | 6 41 | 4 S 4 | 25 S 27 | 20 450 |
| 2 | M | 8 40 59 | 9 17 34 | 17 57 | 21 2 | 4 41 | 27 50 | 20 448 |
| 3 | Tu | 8 44 55 | 10 15 0 | 17 42 | 5 49 | 5 1 | 28 21 | 20 47 |
| 4 | W | 8 48 52 | 11 12 26 | 17 26 | 20 56 | 5 1 | 26 47 | 20 46 |
| 5 | Th | 8 52 48 | 12 9 54 | 17 10 | 6 13 | 4 40 | 23 15 | 20 45 |
| 6 | F | 8 56 45 | 13 7 22 | 16 54 | 21 30 | 3 58 | 18 7 | 20 44 |
| 7 | S | 9 0 41 | 14 4 52 | 16 37 | 6 35 | 3 11 | 11 54 | 20 42 |
| 8 | S | 9 4 38 | 15 2 23 | 16 21 | 21 20 | 1 52 | 5 9 | 20 41 |
| 9 | M | 9 8 35 | 15 59 54 | 16 4 | 5 39 | 0 38 | 1 N 40 | 20 40 |
| 10 | Tu | 9 12 31 | 16 57 28 | 15 46 | 19 29 | 0 N 36 | 8 12 | 20 39 |
| 11 | W | 9 16 28 | 17 55 3 | 15 29 | 2 52 | 1 46 | 14 8 | 20 38 |
| 12 | Th | 9 20 24 | 18 52 59 | 15 11 | 15 50 | 2 48 | 19 16 | 20 37 |
| 13 | F | 9 24 21 | 19 50 17 | 14 53 | 28 26 | 3 40 | 23 24 | 20 36 |
| 14 | S | 9 28 17 | 20 47 57 | 14 35 | 10 46 | 4 21 | 26 23 | 20 35 |
| 15 | S | 9 32 14 | 21 45 38 | 14 16 | 23 53 | 4 49 | 28 5 | 20 34 |
| 16 | M | 9 36 10 | 22 43 21 | 13 57 | 4 51 | 5 4 | 28 27 | 20 33 |
| 17 | Tu | 9 40 7 | 23 41 5 | 13 38 | 16 45 | 5 6 | 27 28 | 20 32 |
| 18 | W | 9 44 4 | 24 38 51 | 13 19 | 28 36 | 4 54 | 25 16 | 20 32 |
| 19 | Th | 9 48 0 | 25 36 38 | 13 0 | 10 28 | 4 30 | 21 58 | 20 31 |
| 20 | F | 9 51 57 | 26 34 26 | 12 40 | 22 22 | 3 55 | 17 46 | 20 31 |
| 21 | S | 9 55 53 | 27 32 16 | 12 20 | 4 19 | 3 8 | 12 51 | 20 31 |
| 22 | S | 9 59 50 | 28 30 8 | 12 0 | 16 21 | 2 13 | 7 26 | 20 30 |
| 23 | M | 10 7 46 | 29 28 1 | 11 40 | 28 31 | 1 11 | 1 41 | 20 30 |
| 24 | Tu | 10 3 43 | 0 25 55 | 11 20 | 10 49 | 0 5 | 4 S 13 | 20 30 |
| 25 | W | 10 11 39 | 1 23 51 | 10 59 | 23 19 | 1 S 3 | 10 3 | 20 30 |
| 26 | Th | 10 15 36 | 2 21 48 | 10 39 | 6 4 | 2 8 | 15 35 | 20 30 |
| 27 | F | 10 19 33 | 3 19 46 | 10 18 | 19 6 | 3 9 | 20 33 | 20 29 |
| 28 | S | 10 23 29 | 4 17 45 | 9 57 | 2 29 | 4 1 | 24 37 | 20 29 |
| 29 | S | 10 27 26 | 5 15 46 | 9 36 | 16 14 | 4 41 | 27 25 | 20 29 |
| 30 | M | 10 31 22 | 6 13 48 | 9 14 | 0 23 | 5 5 | 28 33 | 20 29 |
| 31 | Tu | 10 35 19 | 7 11 51 | 8 53 | 14 54 | 5 11 | 27 47 | 20 29 |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 08 | 9 | 28 | 30 | 08 | 57 |
| 4 | 15 | 54 | 0 | 9 | 2 | 30 | 0 | 57 |
| 7 | 15 | 55 | 0 | 9 | 2 | 31 | 0 | 57 |
| 10 | 15 | 56 | 0 | 9 | 2 | 31 | 0 | 57 |
| 13 | 15 | 57 | 0 | 9 | 2 | 32 | 0 | 57 |
| 16 | 15 | 57 | 0 | 9 | 2 | 32 | 0 | 57 |
| 19 | 15 | 58 | 0 | 9 | 2 | 32 | 0 | 56 |
| 22 | 15 | 59 | 0 | 9 | 2 | 32 | 0 | 56 |
| 25 | 16 | 0 | 0 | 9 | 2 | 32 | 0 | 56 |
| 28 | 16 | 0 | 0 | 9 | 2 | 32 | 0 | 56 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|----|----|-------------------|-------------|------------|-------------------------|-------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 10 | 39 | 15 | 8 ^m 9 | 56 | 8 N 31 | 29 ^w 43 | 4 S 56 | 25 S 3 |
| 2 | Th | 10 | 43 | 12 | 9 | 8 | 9 | 14 ^m 44 | 4 | 21 20 35 |
| 3 | F | 10 | 47 | 8 | 10 | 6 | 9 | 7 47 29 | 47 | 3 28 14 48 |
| 4 | S | 10 | 51 | 5 | 11 | 4 | 18 | 7 25 14 ^x 45 | 2 | 21 8 10 |
| 5 | S | 10 | 55 | 2 | 12 | 2 | 29 | 7 3 29 27 | 1 | 5 1 13 |
| 6 | M | 10 | 58 | 58 | 13 | 0 | 42 | 6 41 13 ^r 48 | 0 N 13 | 5 N 39 |
| 7 | Tu | 11 | 2 | 55 | 13 | 58 | 56 | 6 18 27 43 | 1 | 29 12 3 |
| 8 | W | 11 | 6 | 51 | 14 | 57 | 13 | 5 56 11 ^h 12 | 2 | 36 17 41 |
| 9 | Th | 11 | 10 | 48 | 15 | 55 | 32 | 5 33 24 15 | 3 | 34 22 18 |
| 10 | F | 11 | 14 | 44 | 16 | 53 | 53 | 5 11 6 ^h 55 | 4 | 19 25 45 |
| 11 | S | 11 | 18 | 41 | 17 | 52 | 16 | 4 48 19 18 | 4 | 51 27 52 |
| 12 | S | 11 | 22 | 37 | 18 | 50 | 42 | 4 25 1 ^h 26 | 5 | 10 28 37 |
| 13 | M | 11 | 26 | 34 | 19 | 49 | 9 | 4 2 13 24 | 5 | 14 28 0 |
| 14 | Tu | 11 | 30 | 30 | 20 | 47 | 39 | 3 39 25 16 | 5 | 5 26 6 |
| 15 | W | 11 | 34 | 27 | 21 | 46 | 11 | 3 16 7 ^h 7 | 4 | 43 23 4 |
| 16 | Th | 11 | 38 | 24 | 22 | 44 | 45 | 2 53 19 0 | 4 | 9 19 5 |
| 17 | F | 11 | 42 | 20 | 23 | 43 | 21 | 2 30 0 ^m 58 | 3 | 24 14 19 |
| 18 | S | 11 | 46 | 17 | 24 | 41 | 59 | 2 6 13 3 | 2 | 29 8 58 |
| 19 | S | 11 | 50 | 13 | 25 | 40 | 39 | 1 43 25 16 | 1 | 27 3 12 |
| 20 | M | 11 | 54 | 10 | 26 | 39 | 22 | 1 20 7 ^h 40 | 0 | 19 2 S 45 |
| 21 | Tu | 11 | 58 | 6 | 27 | 38 | 6 | 0 56 20 15 | 0 S 50 | 8 41 |
| 22 | W | 12 | 2 | 3 | 28 | 36 | 51 | 0 33 8 ^m 2 | 1 | 58 14 23 |
| 23 | Th | 12 | 5 | 59 | 29 | 35 | 39 | 0 10 16 2 | 3 | 1 19 33 |
| 24 | F | 12 | 9 | 56 | 0 ^h 34 | 28 | 0 S 14 | 29 18 | 3 | 56 23 52 |
| 25 | S | 12 | 13 | 53 | 1 | 33 | 19 | 0 37 12 ^h 48 | 4 | 39 26 58 |
| 26 | S | 12 | 17 | 49 | 2 | 32 | 12 | 1 1 26 34 | 5 | 7 28 32 |
| 27 | M | 12 | 21 | 46 | 3 | 31 | 7 | 1 24 10 ^w 35 | 5 | 17 28 18 |
| 28 | Tu | 12 | 25 | 42 | 4 | 30 | 3 | 1 47 24 51 | 5 | 8 26 14 |
| 29 | W | 12 | 29 | 39 | 5 | 29 | 1 | 2 11 9 ^m 19 | 4 | 40 22 26 |
| 30 | Th | 12 | 33 | 35 | 6 | 28 | 0 | 2 34 23 54 | 3 | 53 17 14 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 S 2 | 23 N 24 | 1 N 14 | 13 N 21 | 4 S 25 | 0 N 20 | 12 r 53 |
| 4 | 0 N 1 | 23 28 | 1 18 | 11 37 | 4 7 | 1 37 | 12 43 |
| 7 | 0 4 | 23 32 | 1 20 | 10 47 | 3 33 | 3 17 | 12 34 |
| 10 | 0 7 | 23 34 | 1 23 | 9 25 | 2 44 | 5 5 | 12 24 |
| 13 | 0 11 | 23 35 | 1 24 | 8 2 | 1 46 | 6 42 | 12 15 |
| 16 | 0 15 | 23 34 | 1 25 | 6 36 | 0 48 | 7 52 | 12 5 |
| 19 | 0 19 | 23 33 | 1 25 | 5 9 | 0 N 5 | 8 24 | 11 56 |
| 22 | 0 23 | 23 30 | 1 25 | 3 37 | 0 49 | 8 17 | 11 46 |
| 25 | 0 27 | 23 26 | 1 25 | 2 9 | 1 21 | 7 32 | 11 37 |
| 28 | 0 31 | 23 20 | 1 23 | 1 38 | 1 42 | 6 14 | 11 27 |

| D
M | h | z | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|---------|----------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | h | z | ♂ | ♀ |
| 1 | 28 48 | 9 32 27 | 20 27 58 | 18 55 | | | | | * | | | |
| 2 | 28 44 | 8 57 27 | 57 29 | 12 18 | 9 | | | * | | ♂ | | |
| 3 | 28 40 | 8 52 28 | 33 0 26 | 17 37 | ♂ □ h | | ♂ | □ | | | Δ | ♂ |
| 4 | 28 36 | 8 46 29 | 9 1 41 | 16 18 | | | ♂ | □ | ♂ | | □ | ♂ |
| 5 | 28 32 | 8 41 29 | 45 2 55 | 15 19 | | | | | ♂ | | □ | |
| 6 | 28 28 | 8 36 0 | 25 21 4 | 9 14 20 | | | | Δ | | * | | |
| 7 | 28 23 | 8 31 0 | 57 5 24 | 13 20 | ☉ ♂ ♀ | | Δ | | | * | | |
| 8 | 28 18 | 8 26 1 | 33 6 38 | 12 22 | | | Δ | | | □ | * | Δ |
| 9 | 28 14 | 8 21 2 | 8 7 53 | 11 27 | | | | | * | | | Δ |
| 10 | 28 9 | 8 17 2 | 44 9 7 | 10 35 | | | | | | Δ | | □ |
| 11 | 28 5 | 8 13 3 | 19 10 22 | 9 49 | ♀ ♂ ♀ | | | | | | | |
| 12 | 28 0 | 8 9 4 | 11 11 36 | 9 10 | | | | | | | ♂ | * |
| 13 | 27 55 | 8 5 4 | 29 12 51 | 8 39 | | | | | | | | * |
| 14 | 27 51 | 8 1 5 | 4 14 5 | 8 16 | ☉ □ ♀ | | | | | | | |
| 15 | 27 46 | 7 58 5 | 38 15 20 | 8 2 | | | | | | | ♂ | |
| 16 | 27 42 | 7 54 6 | 12 16 34 | 7 D 57 | | | | Δ | | | | |
| 17 | 27 37 | 7 51 6 | 46 17 49 | 8 2 | | | | | | | | |
| 18 | 27 33 | 7 47 7 | 20 19 4 | 8 17 | | | | | | | * | |
| 19 | 27 28 | 7 44 7 | 54 20 19 | 8 41 | ♀ □ ♀ | | ♂ | □ | ♂ | | | ♂ |
| 20 | 27 24 | 7 41 8 | 28 21 33 | 9 14 | | | | | | | Δ | □ |
| 21 | 27 19 | 7 38 9 | 1 22 48 | 9 56 | ☉ ♂ h | | | * | | | | |
| 22 | 27 14 | 7 36 9 | 34 24 2 | 10 47 | | | | | | | □ | |
| 23 | 27 10 | 7 33 10 | 7 25 17 | 11 45 | | | | | | | | Δ |
| 24 | 27 5 | 7 31 10 | 40 26 32 | 12 50 | | | | | Δ | | | * |
| 25 | 27 0 | 7 29 11 | 18 27 47 | 14 3 | ♀ ♂ h | | | | | | * | |
| 26 | 26 56 | 7 27 11 | 45 29 2 | 15 21 | | | | □ | ♂ | □ | | □ |
| 27 | 26 51 | 7 26 12 | 17 0 17 | 16 44 | | | | | | | | ♂ |
| 28 | 26 46 | 7 25 12 | 1 32 18 | 12 | | | | | | * | | |
| 29 | 26 42 | 7 24 13 | 21 2 47 | 19 44 | | | | Δ | | | ♂ | Δ |
| 30 | 26 37 | 7 23 13 | 53 4 2 | 21 18 | ♀ □ ♀ | | | | * | | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 9 | 23 S 18 | 2 S 32 | 3 S 42 | 0 S 56 | 19 S 21 |
| 4 | 16 | 1 | 0 9 | 23 18 | 2 32 | 3 48 | 0 56 | 19 21 |
| 7 | 16 | 2 | 0 9 | 23 18 | 2 32 | 3 53 | 0 55 | 19 20 |
| 10 | 16 | 3 | 0 9 | 23 19 | 2 32 | 3 58 | 0 55 | 19 19 |
| 13 | 16 | 4 | 0 9 | 23 19 | 2 32 | 4 2 | 0 55 | 19 18 |
| 16 | 16 | 5 | 0 9 | 23 20 | 2 32 | 4 7 | 0 55 | 19 16 |
| 19 | 16 | 5 | 0 9 | 23 20 | 2 31 | 4 11 | 0 54 | 19 14 |
| 22 | 16 | 6 | 0 9 | 23 21 | 2 31 | 4 15 | 0 54 | 19 11 |
| 25 | 16 | 7 | 0 9 | 23 21 | 2 30 | 4 19 | 0 54 | 19 8 |
| 28 | 16 | 7 | 0 9 | 23 21 | 2 30 | 4 23 | 0 54 | 19 4 |
| 31 | 16 | 8 | 0 9 | 23 21 | 2 30 | 4 26 | 0 54 | 19 0 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 12 37 32 | 7 27 2 | 28 58 | 8 38 | 28 51 | 11 S 1 | 20 55 |
| 2 | S | 12 41 28 | 8 26 5 | 3 21 | 23 8 | 1 38 | 4 14 | 20 57 |
| 3 | S | 12 45 25 | 9 25 10 | 3 44 | 7 33 | 0 20 | 2 N 41 | 20 59 |
| 4 | M | 12 49 22 | 10 24 18 | 4 7 | 21 43 | 0 N 58 | 9 22 | 21 1 |
| 5 | Tu | 12 53 16 | 11 23 27 | 4 31 | 5 38 | 2 11 | 15 27 | 21 2 |
| 6 | W | 12 57 15 | 12 22 38 | 4 54 | 19 2 | 3 15 | 20 37 | 21 4 |
| 7 | Th | 13 1 11 | 13 21 52 | 5 17 | 2 8 | 4 7 | 24 38 | 21 5 |
| 8 | F | 13 5 8 | 14 21 9 | 5 40 | 14 52 | 4 44 | 27 19 | 21 7 |
| 9 | S | 13 9 4 | 15 20 27 | 6 3 | 27 16 | 5 8 | 28 34 | 21 9 |
| 10 | S | 13 13 1 | 16 19 48 | 6 26 | 9 26 | 5 17 | 28 24 | 21 11 |
| 11 | M | 13 16 57 | 17 19 11 | 6 48 | 21 27 | 5 12 | 26 53 | 21 13 |
| 12 | Tu | 13 20 54 | 18 18 37 | 7 11 | 3 20 | 4 54 | 24 11 | 21 15 |
| 13 | W | 13 24 51 | 19 18 5 | 7 34 | 15 12 | 4 23 | 20 29 | 21 17 |
| 14 | Th | 13 28 47 | 20 17 35 | 7 56 | 27 6 | 3 41 | 15 57 | 21 19 |
| 15 | F | 13 32 44 | 21 17 5 | 8 19 | 9 7 | 2 48 | 10 46 | 21 21 |
| 16 | S | 13 36 40 | 22 16 48 | 8 41 | 21 19 | 1 48 | 5 6 | 21 23 |
| 17 | S | 13 40 37 | 23 16 20 | 9 3 | 3 48 | 0 42 | 0 S 51 | 21 25 |
| 18 | M | 13 44 33 | 24 15 59 | 9 26 | 16 23 | 0 S 28 | 6 53 | 21 26 |
| 19 | Tu | 13 48 30 | 25 15 40 | 9 47 | 29 18 | 1 38 | 12 44 | 21 30 |
| 20 | W | 13 52 26 | 26 15 24 | 10 9 | 12 29 | 2 44 | 18 12 | 21 33 |
| 21 | Th | 13 56 23 | 27 15 9 | 10 30 | 25 55 | 3 42 | 22 51 | 21 36 |
| 22 | F | 14 0 19 | 28 14 56 | 10 52 | 9 33 | 4 29 | 26 20 | 21 39 |
| 23 | S | 14 4 16 | 29 14 45 | 11 13 | 23 23 | 5 0 | 28 18 | 21 41 |
| 24 | S | 14 8 11 | 0 14 36 | 11 34 | 7 21 | 5 14 | 28 30 | 21 44 |
| 25 | M | 14 12 7 | 1 14 28 | 11 55 | 21 26 | 5 10 | 26 51 | 21 47 |
| 26 | Tu | 14 16 3 | 2 14 22 | 12 16 | 5 36 | 4 47 | 23 31 | 21 50 |
| 27 | W | 14 19 59 | 3 14 18 | 12 36 | 19 48 | 4 6 | 18 47 | 21 53 |
| 28 | Th | 14 23 56 | 4 14 14 | 12 57 | 4 1 | 3 10 | 13 0 | 21 55 |
| 29 | F | 14 27 53 | 5 14 13 | 13 17 | 18 12 | 2 3 | 6 33 | 21 58 |
| 30 | S | 14 31 49 | 6 14 13 | 13 37 | 2 18 | 0 45 | 0 N 11 | 22 1 |
| 31 | S | 14 35 46 | 7 14 16 | 13 57 | 16 17 | 0 N 25 | 6 51 | 22 3 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 35 | 23 N 16 | 1 N 21 | 0 S 51 | 1 N 53 | 4 N 32 | 11 r 18 |
| 4 | 0 39 | 23 11 | 1 18 | 2 22 | 1 55 | 2 34 | 11 8 |
| 7 | 0 44 | 23 3 | 1 16 | 3 53 | 1 61 | 0 25 | 10 59 |
| 10 | 0 49 | 22 56 | 1 12 | 5 23 | 1 41 | 1 S 49 | 10 49 |
| 13 | 0 53 | 22 47 | 1 9 | 6 52 | 1 28 | 4 5 | 10 40 |
| 16 | 0 58 | 22 40 | 1 4 | 8 22 | 1 11 | 6 19 | 10 30 |
| 19 | 1 3 | 22 31 | 0 59 | 9 46 | 0 53 | 8 30 | 10 21 |
| 22 | 1 8 | 22 23 | 0 53 | 11 10 | 0 34 | 10 37 | 10 11 |
| 25 | 1 13 | 22 14 | 0 48 | 12 33 | 0 14 | 12 38 | 10 2 |
| 28 | 1 18 | 22 6 | 0 42 | 13 50 | 0 S 6 | 14 33 | 9 53 |
| 31 | 1 24 | 21 58 | 0 35 | 15 7 | 0 26 | 16 21 | 9 43 |

| D
M | h
Long. | 2
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lunar Aspects. | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|
| | | | | | | | ☉ | ☿ | | |
| 1 | 26 x 32 | 7 m 22 14 | 25 25 | 5 m 17 22 | m 55 | ☉ Δ ♈ | | | | |
| 2 | 26 B 27 | 7 B 22 14 | 56 6 | 31 24 | 32 | ♀ Δ ♈ | | | | |
| 3 | 26 23 | 7 22 15 | 26 7 | 40 20 | 13 | ♀ ♂ h | ♂ | | | |
| 4 | 26 18 | 7 D 22 15 | 57 9 | 1 27 | 59 | | | | | |
| 5 | 26 14 | 7 22 16 | 27 10 | 16 29 | 43 | | | | | |
| 6 | 26 9 | 7 22 16 | 58 11 | 31 1 | 28 | | | | | |
| 7 | 26 6 | 7 22 17 | 28 12 | 46 3 | 13 | | | | | |
| 8 | 26 0 | 7 23 17 | 58 14 | 1 4 | 68 | | Δ | | | |
| 9 | 25 56 | 7 24 18 | 27 15 | 16 6 | 43 | ♀ Δ ♈ | | | | |
| 10 | 25 52 | 7 25 18 | 56 16 | 31 8 | 29 | | | | | |
| 11 | 25 48 | 7 26 19 | 26 17 | 46 10 | 14 | | □ | | | |
| 12 | 25 44 | 7 27 19 | 54 19 | 1 11 | 59 | | | | | |
| 13 | 25 40 | 7 28 20 | 28 20 | 16 13 | 44 | ♀ * ♈ | * | | | |
| 14 | 25 36 | 7 31 20 | 51 21 | 31 15 | 29 | ☉ □ ♂ | | | | |
| 15 | 25 32 | 7 33 21 | 18 23 | 46 17 | 13 | ☉ * ♈ | | | | |
| 16 | 25 28 | 7 36 21 | 46 24 | 1 18 | 55 | | □ | ♂ | * | |
| 17 | 25 24 | 7 38 23 | 13 25 | 16 20 | 38 | ♀ * ♈ | | | Δ | * |
| 18 | 25 20 | 7 41 22 | 40 26 | 31 22 | 20 | ♀ □ ♂ | * | | | |
| 19 | 25 17 | 7 44 23 | 7 27 | 47 24 | 1 | | ♂ | | □ | ♂ |
| 20 | 25 13 | 7 47 23 | 33 29 | 2 25 | 42 | | | | □ | ♂ |
| 21 | 25 10 | 7 51 23 | 58 0 | m 17 27 | 22 | ☉ ♂ ♉ | | | Δ | |
| 22 | 25 6 | 7 54 24 | 24 1 | 32 29 | 2 | | | | * | Δ |
| 23 | 25 3 | 7 58 24 | 49 2 | 47 0 | m 42 | | * | ♂ | □ | * |
| 24 | 24 59 | 8 2 25 | 15 4 | 2 2 | 21 | ♂ Δ h | | | | * |
| 25 | 24 56 | 8 6 25 | 40 5 | 18 3 | 58 | | | | * | ♂ |
| 26 | 24 53 | 8 10 26 | 4 6 | 33 5 | 35 | | □ | * | | ♂ |
| 27 | 24 50 | 8 15 26 | 27 7 | 48 7 | 12 | ♀ □ ♈ | | * | | □ |
| 28 | 24 47 | 8 19 26 | 51 9 | 3 8 | 46 | ♀ □ ♈ | Δ | | | Δ |
| 29 | 24 44 | 8 24 27 | 14 10 | 18 10 | 24 | ♀ ♂ ♉ | | □ | ♂ | |
| 30 | 24 41 | 8 29 27 | 37 11 | 33 12 | 0 | | | | * | Δ |
| 31 | 24 38 | 8 34 28 | 0 12 | 48 13 | 36 | | Δ | | | |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 8 | 9 23 S | 2 29 | 4 26 | 0 53 | 18 59 |
| 4 | 16 | 10 | 0 9 | 23 22 | 2 29 | 4 29 | 0 53 | 18 54 |
| 7 | 16 | 11 | 0 9 | 23 23 | 2 28 | 4 31 | 0 53 | 18 49 |
| 10 | 16 | 12 | 0 9 | 23 24 | 2 28 | 4 33 | 0 53 | 18 45 |
| 13 | 16 | 12 | 0 9 | 23 24 | 2 27 | 4 34 | 0 52 | 18 36 |
| 16 | 16 | 13 | 0 9 | 23 25 | 2 27 | 4 35 | 0 52 | 18 31 |
| 19 | 16 | 14 | 0 9 | 23 25 | 2 26 | 4 36 | 0 52 | 18 24 |
| 22 | 16 | 14 | 0 9 | 23 26 | 2 26 | 4 36 | 0 52 | 18 17 |
| 25 | 16 | 15 | 0 9 | 23 26 | 2 25 | 4 36 | 0 52 | 18 10 |
| 28 | 16 | 15 | 0 9 | 23 27 | 2 25 | 4 35 | 0 52 | 18 2 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 14 | 39 | 42 | 8 m 14 | 20 | 14 S 16 | 0 5 | 1 N 42 | 18 N 6 |
| 2 | Tu | 14 | 43 | 38 | 9 14 | 25 | 14 35 | 13 39 | 2 49 | 18 38 |
| 3 | W | 14 | 47 | 35 | 10 14 | 33 | 14 54 | 26 57 | 3 45 | 23 9 |
| 4 | Th | 14 | 51 | 31 | 11 14 | 42 | 15 13 | 9 57 | 4 28 | 26 23 |
| 5 | F | 14 | 55 | 28 | 12 14 | 54 | 15 32 | 22 40 | 4 56 | 28 12 |
| 6 | S | 14 | 59 | 24 | 13 15 | 7 | 15 50 | 5 5 | 5 10 | 28 32 |
| 7 | S | 15 | 3 | 21 | 14 15 | 23 | 16 8 | 17 16 | 5 10 | 27 28 |
| 8 | M | 15 | 7 | 17 | 15 15 | 41 | 16 26 | 29 16 | 4 55 | 25 8 |
| 9 | Tu | 15 | 11 | 14 | 16 16 | 1 | 16 43 | 11 9 | 4 29 | 21 45 |
| 10 | W | 15 | 15 | 11 | 17 16 | 22 | 17 1 | 23 0 | 3 50 | 17 30 |
| 11 | Th | 15 | 19 | 7 | 18 16 | 46 | 17 17 | 4 m 54 | 3 2 | 12 33 |
| 12 | F | 15 | 23 | 4 | 19 17 | 12 | 17 34 | 16 56 | 2 5 | 7 5 |
| 13 | S | 15 | 27 | 0 | 20 17 | 39 | 17 50 | 29 10 | 1 2 | 1 17 |
| 14 | S | 15 | 30 | 57 | 21 18 | 9 | 18 6 | 11 41 | 0 8 | 6 4 |
| 15 | M | 15 | 34 | 53 | 22 18 | 41 | 18 22 | 24 32 | 1 15 | 10 41 |
| 16 | Tu | 15 | 38 | 50 | 23 19 | 14 | 18 37 | 7 m 45 | 2 21 | 16 20 |
| 17 | W | 15 | 42 | 46 | 24 19 | 49 | 18 52 | 21 19 | 3 22 | 21 21 |
| 18 | Th | 15 | 46 | 43 | 25 20 | 25 | 19 7 | 5 12 | 4 12 | 25 19 |
| 19 | F | 15 | 50 | 40 | 26 21 | 3 | 19 22 | 19 20 | 4 47 | 27 48 |
| 20 | S | 15 | 54 | 36 | 27 21 | 42 | 19 36 | 3 w 38 | 5 5 | 28 30 |
| 21 | S | 15 | 58 | 33 | 28 22 | 23 | 19 49 | 18 0 | 5 4 | 27 17 |
| 22 | M | 16 | 2 | 29 | 29 23 | 5 | 20 2 | 2 m 22 | 4 44 | 24 16 |
| 23 | Tu | 16 | 6 | 26 | 0 23 | 48 | 20 15 | 16 39 | 4 7 | 19 47 |
| 24 | W | 16 | 10 | 22 | 1 24 | 32 | 20 28 | 0 49 | 3 14 | 14 13 |
| 25 | Th | 16 | 14 | 19 | 2 25 | 17 | 20 40 | 14 50 | 2 11 | 7 59 |
| 26 | F | 16 | 18 | 15 | 3 26 | 2 | 20 52 | 28 41 | 1 0 | 1 26 |
| 27 | S | 16 | 22 | 12 | 4 26 | 49 | 21 3 | 12 23 | 0 N 13 | 5 N 6 |
| 28 | S | 16 | 26 | 9 | 5 27 | 37 | 21 14 | 25 55 | 1 25 | 11 20 |
| 29 | M | 16 | 30 | 5 | 6 28 | 26 | 21 24 | 9 17 | 2 30 | 16 59 |
| 30 | Tu | 16 | 34 | 2 | 7 29 | 16 | 21 35 | 22 28 | 3 27 | 21 44 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|-----------------|---|---|---|---|---|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | |
| 1 | 1 N 26 | 21 N 55 | 0 N 34 | 15 S 32 | 0 S 33 | 16 S 55 | 9 39 | | | | | |
| 4 | 1 32 | 21 49 | 0 27 | 16 42 | 0 52 | 18 34 | 9 29 | | | | | |
| 7 | 1 38 | 21 41 | 0 20 | 17 51 | 1 11 | 20 3 | 9 20 | | | | | |
| 10 | 1 45 | 21 35 | 0 18 | 18 51 | 1 28 | 21 24 | 9 10 | | | | | |
| 13 | 1 51 | 21 29 | 0 6 | 19 53 | 1 44 | 22 36 | 9 1 | | | | | |
| 16 | 1 58 | 21 25 | 0 8 1 | 20 46 | 1 58 | 23 38 | 8 51 | | | | | |
| 19 | 2 6 | 21 23 | 0 9 | 21 35 | 2 10 | 24 28 | 8 42 | | | | | |
| 22 | 2 12 | 21 21 | 0 16 | 22 16 | 2 19 | 25 7 | 8 32 | | | | | |
| 25 | 2 19 | 21 21 | 0 23 | 22 55 | 2 25 | 25 34 | 8 23 | | | | | |
| 28 | 2 26 | 21 23 | 0 31 | 23 30 | 2 26 | 25 49 | 8 13 | | | | | |
| | | | | | | | | | | | | |
| D
M | h
Long. | h
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspta. | Lunar Aspects. | | | | | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 24 x 35 | 8 m 39 | 28 23 | 14 m 4 | 15 m 10 | ☉ ☐ ♀ | | | | ☐ | ♂ | ♂ |
| 2 | 24 R 32 | 8 45 | 28 45 | 16 19 | 16 44 | | ♂ | | | ☐ | | ♂ |
| 3 | 24 30 | 8 50 | 29 6 | 16 34 | 18 18 | | | * | | ☐ | | |
| 4 | 24 27 | 8 56 | 29 27 | 17 49 | 19 51 | | | | | Δ | | |
| 5 | 24 25 | 9 2 | 29 47 | 19 42 | 21 24 | | ♂ | ☐ | | | | |
| 6 | 24 23 | 9 8 | 0 Ω 7 | 20 19 | 22 57 | | | | | | | |
| 7 | 24 21 | 9 14 | 0 27 | 21 35 | 24 29 | | | | | | Δ | |
| 8 | 24 19 | 9 21 | 0 46 | 22 50 | 26 1 | | | | | | | Δ |
| 9 | 24 17 | 9 27 | 1 4 | 24 5 | 27 32 | | | | | | | |
| 10 | 24 15 | 9 34 | 1 22 | 25 20 | 29 3 | | | | | | | |
| 11 | 24 13 | 9 41 | 1 40 | 26 35 | 0 7 34 | | | | | | | ☐ |
| 12 | 24 11 | 9 48 | 1 57 | 27 50 | 2 5 | ♀ Δ ♂ | ☐ | | ♂ | | | |
| 13 | 24 10 | 9 55 | 2 14 | 29 6 | 8 35 | | | | ♂ | | * | * |
| 14 | 24 8 | 10 2 | 2 30 | 0 7 21 | 5 5 | | | | | Δ | * | * |
| 15 | 24 6 | 10 10 | 2 45 | 1 36 | 6 32 | | | * | | | | |
| 16 | 24 5 | 10 18 | 3 0 | 2 52 | 8 4 | ♀ Δ ♂ | | | | ☐ | ☐ | |
| 17 | 24 4 | 10 26 | 3 14 | 4 7 | 9 33 | ☉ Δ ♀ | ♂ | | | Δ | | |
| 18 | 24 3 | 10 34 | 3 28 | 5 23 | 11 1 | ♀ * ♀ | | | | * | Δ | ♂ |
| 19 | 24 2 | 10 42 | 3 41 | 6 38 | 12 29 | | | ♂ | ☐ | | | |
| 20 | 24 1 | 10 51 | 3 54 | 7 53 | 13 56 | | | | | | | |
| 21 | 24 1 | 10 59 | 4 6 | 9 9 | 15 29 | | | | * | | | |
| 22 | 24 0 | 11 8 | 4 17 | 10 24 | 16 50 | | | * | | | ♂ | |
| 23 | 24 0 | 11 16 | 4 28 | 11 40 | 18 16 | ♀ * ♀ | | | * | | ♂ | * |
| 24 | 23 59 | 11 25 | 4 38 | 12 55 | 19 41 | | | ☐ | | | | |
| 25 | 23 59 | 11 34 | 4 47 | 14 10 | 21 4 | | | | | | | ☐ |
| 26 | 23 59 | 11 43 | 4 56 | 15 25 | 22 27 | ♂ ☐ ♀ | Δ | ☐ | ♂ | | Δ | ☐ |
| 27 | 23 59 | 11 53 | 5 4 | 16 40 | 23 49 | ♀ ☐ ☐ | | | | * | Δ | |
| 28 | 23 D 59 | 12 2 | 5 11 | 17 55 | 25 9 | ☉ Δ ♂ | | | Δ | | | |
| 29 | 23 59 | 12 12 | 5 18 | 19 10 | 26 27 | | | | | ☐ | ☐ | Δ |
| 30 | 23 59 | 12 21 | 5 24 | 20 25 | 27 44 | | | | * | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 9 | 23 S 28 | 2 S 23 | 4 S 35 | 0 S 51 | 17 S 53 |
| 4 | 16 | 15 | 0 9 | 23 28 | 2 23 | 4 34 | 0 51 | 17 45 |
| 7 | 16 | 16 | 0 9 | 23 29 | 2 22 | 4 32 | 0 51 | 17 38 |
| 10 | 16 | 16 | 0 9 | 23 30 | 2 22 | 4 30 | 0 51 | 17 27 |
| 13 | 16 | 16 | 0 9 | 23 30 | 2 21 | 4 28 | 0 51 | 17 17 |
| 16 | 16 | 16 | 0 9 | 23 30 | 2 20 | 4 25 | 0 51 | 17 7 |
| 19 | 16 | 17 | 0 9 | 23 30 | 2 19 | 4 22 | 0 51 | 16 56 |
| 22 | 16 | 17 | 0 9 | 23 31 | 2 19 | 4 19 | 0 51 | 16 45 |
| 25 | 16 | 17 | 0 9 | 23 31 | 2 18 | 4 15 | 0 50 | 16 34 |
| 28 | 16 | 17 | 0 9 | 23 31 | 2 18 | 4 11 | 0 50 | 16 22 |
| 31 | 16 | 17 | 0 9 | 23 32 | 2 17 | 4 7 | 0 50 | 16 10 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 16 37 58 | 8 ↑ 30 7 | 21 S 45 | 5 ♀ 27 | 4 N 12 | 25 N 22 | 23 ↑ 43 |
| 2 | Th | 16 41 55 | 9 30 59 | 21 54 | 18 14 | 4 43 | 27 38 | 23 46 |
| 3 | F | 16 45 51 | 10 31 52 | 22 3 | 0 ♄ 47 | 5 0 | 28 28 | 23 50 |
| 4 | S | 16 49 48 | 11 32 47 | 22 12 | 13 7 | 5 2 | 27 50 | 23 53 |
| 5 | S | 16 53 45 | 12 33 43 | 22 20 | 25 15 | 4 51 | 25 52 | 23 57 |
| 6 | M | 16 57 41 | 13 34 40 | 22 27 | 7 ♀ 14 | 4 27 | 22 47 | 24 1 |
| 7 | Tu | 17 1 38 | 14 35 38 | 22 35 | 19 5 | 3 51 | 18 46 | 24 4 |
| 8 | W | 17 5 34 | 15 36 38 | 22 41 | 0 ♄ 55 | 3 6 | 14 3 | 24 8 |
| 9 | Th | 17 9 31 | 16 37 38 | 22 48 | 12 46 | 2 12 | 8 49 | 24 12 |
| 10 | F | 17 13 27 | 17 38 40 | 22 53 | 24 46 | 1 12 | 3 12 | 24 15 |
| 11 | S | 17 17 24 | 18 39 43 | 22 59 | 6 ♀ 58 | 0 8 | 2 S 39 | 24 19 |
| 12 | S | 17 21 20 | 19 40 47 | 23 4 | 19 29 | 0 S 58 | 8 32 | 24 23 |
| 13 | M | 17 25 17 | 20 41 52 | 23 8 | 2 ♄ 23 | 2 3 | 14 14 | 24 26 |
| 14 | Tu | 17 29 14 | 21 42 58 | 23 12 | 15 43 | 3 4 | 19 29 | 24 30 |
| 15 | W | 17 33 10 | 22 44 5 | 23 16 | 29 30 | 3 55 | 23 53 | 24 33 |
| 16 | Th | 17 37 7 | 23 45 13 | 23 19 | 13 ↑ 42 | 4 34 | 27 0 | 24 37 |
| 17 | F | 17 41 3 | 24 46 21 | 23 22 | 28 15 | 4 56 | 28 24 | 24 41 |
| 18 | S | 17 45 0 | 25 47 30 | 23 24 | 13 ♄ 1 | 4 59 | 27 47 | 24 45 |
| 19 | S | 17 48 56 | 26 48 39 | 23 26 | 27 53 | 4 42 | 25 13 | 24 48 |
| 20 | M | 17 52 53 | 27 49 49 | 23 27 | 12 ♄ 40 | 4 6 | 20 57 | 24 51 |
| 21 | Tu | 17 56 49 | 28 50 59 | 23 28 | 27 17 | 3 14 | 15 28 | 24 55 |
| 22 | W | 18 0 46 | 29 52 9 | 23 28 | 11 ♄ 38 | 2 11 | 9 14 | 24 58 |
| 23 | Th | 18 4 48 | 0 ♄ 53 | 19 23 | 28 25 | 1 0 | 2 38 | 25 1 |
| 24 | F | 18 8 39 | 1 54 29 | 23 27 | 9 ↑ 27 | 0 N 12 | 3 N 56 | 25 5 |
| 25 | S | 18 12 36 | 2 55 39 | 23 26 | 22 55 | 1 22 | 10 12 | 25 8 |
| 26 | S | 18 16 32 | 3 56 49 | 23 24 | 6 ♄ 9 | 2 27 | 15 53 | 25 13 |
| 27 | M | 18 20 29 | 4 57 59 | 23 22 | 19 10 | 3 22 | 20 46 | 25 15 |
| 28 | Tu | 18 24 25 | 5 59 9 | 23 20 | 2 ♄ 0 | 4 6 | 24 36 | 25 19 |
| 29 | W | 18 28 22 | 7 0 19 | 23 17 | 14 39 | 4 38 | 27 11 | 25 23 |
| 30 | Th | 18 32 18 | 8 1 29 | 23 13 | 27 8 | 4 55 | 28 21 | 25 27 |
| 31 | F | 18 36 15 | 9 2 39 | 23 9 | 9 ♄ 28 | 4 59 | 28 6 | 25 31 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 2 N 35 | 21 N 25 | 0 S 37 | 23 S 50 | 2 S 23 | 25 S 50 | 8 r 4 |
| 4 | 2 11 | 21 30 | 0 44 | 24 8 | 2 13 | 25 38 | 7 54 |
| 7 | 2 51 | 21 37 | 0 51 | 24 19 | 1 53 | 25 15 | 7 45 |
| 10 | 2 59 | 21 46 | 0 57 | 24 25 | 1 25 | 24 40 | 7 35 |
| 13 | 3 7 | 21 56 | 1 3 | 24 21 | 0 45 | 23 57 | 7 26 |
| 16 | 3 15 | 22 10 | 1 8 | 24 9 | 0 N 7 | 23 8 | 7 16 |
| 19 | 3 28 | 22 23 | 1 14 | 23 56 | 1 6 | 22 16 | 7 7 |
| 22 | 3 31 | 22 46 | 1 19 | 23 25 | 2 8 | 21 25 | 6 57 |
| 25 | 3 39 | 22 55 | 1 23 | 23 4 | 2 45 | 20 41 | 6 48 |
| 28 | 3 47 | 23 7 | 1 26 | 22 27 | 3 7 | 20 14 | 6 38 |
| 31 | 3 55 | 23 26 | 1 28 | 21 33 | 3 9 | 20 7 | 6 29 |

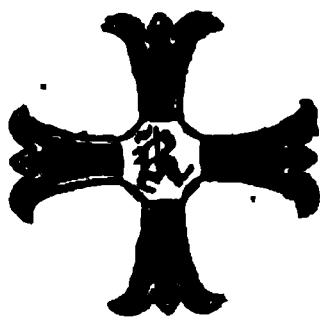
| D
M | h | | ♈ | | ♉ | | ♊ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 23 59 | 12 31 | 5 29 | 21 41 | 28 15 | | | | | ♈ | | | | * | ♈ |
| 2 | 24 0 | 12 41 | 5 34 | 22 56 | 0 13 | | | | | ♈ | ♈ | ☐ | Δ | | ♈ |
| 3 | 24 0 | 12 51 | 5 38 | 24 11 | 1 23 | ♀ ☿ ♀ | | | | | | | | | ♈ |
| 4 | 24 1 | 13 1 | 5 41 | 25 26 | 2 28 | ♀ ☐ ♀ | | | | | | | | | |
| 5 | 24 1 | 13 11 | 5 43 | 26 41 | 3 30 | | | | | | | Δ | | | |
| 6 | 24 2 | 13 21 | 5 44 | 27 56 | 4 28 | ☉ * ♀ | | | | | | | | ♈ | |
| 7 | 24 3 | 13 32 | 5 44 | 29 12 | 5 23 | | | | | Δ | Δ | | ♈ | | |
| 8 | 24 4 | 13 42 | 5 44 | 0 27 | 6 12 | | | | | | | | | | Δ |
| 9 | 24 5 | 13 53 | 5 43 | 1 42 | 6 54 | | | | | ☐ | ☐ | ♈ | | | Δ |
| 10 | 24 7 | 14 4 | 5 41 | 2 58 | 7 28 | | | | | | ☐ | ♈ | | | |
| 11 | 24 8 | 14 15 | 5 38 | 4 13 | 7 55 | | | | | | | | | * | ☐ |
| 12 | 24 9 | 14 26 | 5 35 | 5 28 | 8 13 | | | | | * | * | | Δ | | |
| 13 | 24 11 | 14 37 | 5 31 | 6 44 | 8 23 | | | | | | | | | ☐ | * |
| 14 | 24 13 | 14 48 | 5 26 | 7 59 | 8 23 | ♀ ☿ ♀ | | | | | | | ☐ | | * |
| 15 | 24 15 | 15 0 | 5 20 | 9 14 | 8 10 | | | | | | | Δ | | Δ | |
| 16 | 24 17 | 15 11 | 5 19 | 10 29 | 7 43 | ☉ ☐ ♀ | | | | ☉ | ☐ | ♈ | | | |
| 17 | 24 19 | 15 23 | 5 11 | 11 44 | 7 6 | ☉ ☐ ♀ | | | | ☉ | ☐ | ♈ | | | |
| 18 | 24 21 | 15 34 | 4 57 | 12 59 | 6 19 | | | | | | | | | | ☉ |
| 19 | 24 23 | 15 46 | 4 48 | 14 15 | 5 21 | | | | | | | | | | ☉ |
| 20 | 24 26 | 15 58 | 4 38 | 15 30 | 4 15 | | | | | | | | | ☉ | |
| 21 | 24 28 | 16 10 | 4 27 | 16 45 | 3 1 | | | | | | | | | | |
| 22 | 24 31 | 16 22 | 4 15 | 18 0 | 1 39 | | | | | | | | | | |
| 23 | 24 33 | 16 34 | 4 2 | 19 15 | 29 16 | ☉ ☐ ♀ | | | | | | | | | |
| 24 | 24 36 | 16 46 | 3 49 | 20 30 | 28 55 | | | | | | | | | | |
| 25 | 24 39 | 16 58 | 3 35 | 21 45 | 27 36 | | | | | | | | | | |
| 26 | 24 42 | 17 11 | 3 20 | 23 0 | 26 23 | | | | | Δ | | | | ☐ | |
| 27 | 24 45 | 17 23 | 3 4 | 24 15 | 25 17 | ♀ * ♀ | | | | | | * | ☐ | | Δ |
| 28 | 24 48 | 17 36 | 2 48 | 25 30 | 24 19 | ♀ ☐ ♀ | | | | | | | | * | |
| 29 | 24 51 | 17 48 | 2 21 | 26 45 | 23 31 | | | | | | | | Δ | | |
| 30 | 24 54 | 18 1 | 2 14 | 28 0 | 22 54 | | | | | | | | | | |
| 31 | 24 57 | 18 13 | 1 56 | 29 15 | 22 28 | | | | | ♈ | | | | | |

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1850.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1882.

Price One Shilling.



DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spiritous Lagers—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Roke, under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. ROOKE, Scarborough, England.

DR. ROOKE'S ANTI-LANCET.

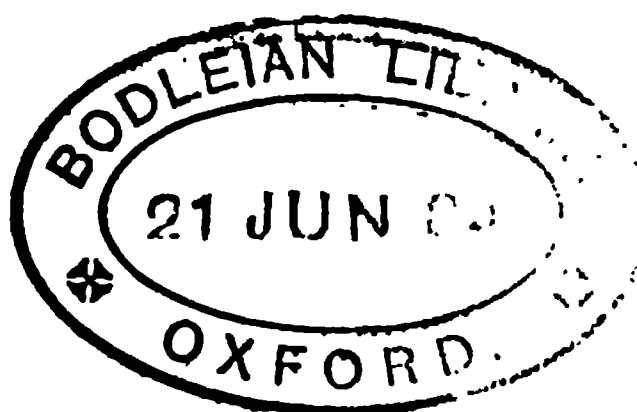
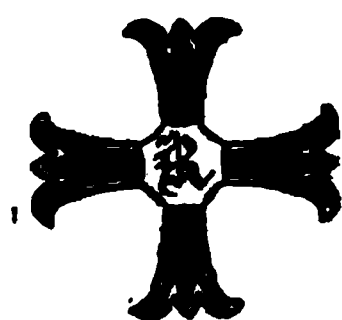
Ask your Chemist for a copy (gratis) of the last edition, containing 172 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1850.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1882.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 17 | 0 8 36 | 8 N 10 | 2 8 23 | 1 8 26 | 1 N 16 | 3 N 67 |
| 4 | 16 | 17 | 0 8 35 | 8 11 | 2 23 | 1 22 | 1 17 | 3 56 |
| 7 | 16 | 17 | 0 8 35 | 8 11 | 2 23 | 1 17 | 1 18 | 3 57 |
| 10 | 16 | 17 | 0 8 35 | 8 12 | 2 23 | 1 12 | 1 18 | 3 58 |
| 13 | 16 | 17 | 0 8 35 | 8 12 | 2 21 | 1 7 | 1 19 | 3 59 |
| 16 | 16 | 17 | 0 8 35 | 8 13 | 2 21 | 1 1 | 1 20 | 4 2 |
| 19 | 16 | 16 | 0 8 35 | 8 14 | 2 20 | 0 56 | 1 21 | 4 5 |
| 22 | 16 | 16 | 0 8 35 | 8 16 | 2 19 | 0 49 | 1 22 | 4 9 |
| 25 | 16 | 16 | 0 8 35 | 8 17 | 2 18 | 0 43 | 1 23 | 4 13 |
| 28 | 16 | 16 | 0 8 34 | 8 19 | 2 18 | 0 36 | 1 24 | 4 18 |
| 31 | 16 | 15 | 0 8 34 | 8 20 | 2 17 | 0 29 | 1 25 | 4 24 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|-----------------------|-----------------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 18 43 7 | 10 ^w 47 49 | 23 8 1 | 21 2 45 | 0 8 15 | 2 | 23 22 |
| 2 | W | 18 47 4 | 11 48 58 | 22 56 6 ^w | 8 1 N 3 | 5 | 23 23 | |
| 3 | Th | 18 51 0 | 12 50 6 | 22 50 20 | 2 2 14 | 0 | 23 23 | |
| 4 | F | 18 54 57 | 13 51 15 | 22 44 30 | 3 16 | 16 | 23 23 | |
| 5 | S | 18 58 54 | 14 52 25 | 22 38 16 | 38 4 5 | 4 | 23 23 | |
| 6 | S | 19 2 50 | 15 53 34 | 22 31 29 | 15 4 41 | 6 49 | 23 23 | |
| 7 | M | 19 6 47 | 16 54 48 | 22 23 11 ^w | 40 5 3 | 10 32 | 23 23 | |
| 8 | Tu | 19 10 43 | 17 55 52 | 22 15 23 | 51 5 11 | 13 44 | 23 23 | |
| 9 | W | 19 14 40 | 18 57 2 | 22 7 5 | 53 5 5 | 16 18 | 23 24 | |
| 10 | Th | 19 18 36 | 19 58 11 | 21 58 17 | 49 4 45 | 18 10 | 23 24 | |
| 11 | F | 19 22 33 | 20 59 20 | 21 49 29 | 40 4 14 | 19 14 | 23 25 | |
| 12 | S | 19 26 29 | 22 0 29 | 21 39 11 ^w | 30 3 31 | 19 27 | 23 25 | |
| 13 | S | 19 30 26 | 23 1 37 | 21 29 23 | 20 2 39 | 18 49 | 23 25 | |
| 14 | M | 19 34 23 | 24 2 45 | 21 19 5 | 11 1 40 | 17 22 | 23 27 | |
| 15 | Tu | 19 38 19 | 25 3 52 | 21 8 17 | 7 0 87 | 15 6 | 23 28 | |
| 16 | W | 19 42 16 | 26 4 59 | 20 57 29 | 8 0 8 29 | 12 14 | 23 29 | |
| 17 | Th | 19 46 12 | 27 6 4 | 20 45 11 ^x | 17 1 35 | 8 48 | 23 30 | |
| 18 | F | 19 50 9 | 28 7 9 | 20 33 23 | 36 2 37 | 4 56 | 23 31 | |
| 19 | S | 19 54 5 | 29 8 13 | 20 21 6 ^r | 18 3 33 | 0 47 | 23 32 | |
| 20 | S | 19 58 2 | 30 ^m 9 17 | 20 8 19 | 7 4 19 | 3 N 29 | 23 33 | |
| 21 | M | 20 1 58 | 1 10 19 | 19 55 30 | 23 4 54 | 7 42 | 23 34 | |
| 22 | Tu | 20 5 55 | 2 11 20 | 19 41 16 | 3 5 13 | 11 39 | 23 35 | |
| 23 | W | 20 9 52 | 3 12 20 | 19 27 0 | 11 5 14 | 15 5 | 23 36 | |
| 24 | Th | 20 13 48 | 4 13 19 | 19 13 14 | 38 4 55 | 17 41 | 23 37 | |
| 25 | F | 20 17 45 | 5 14 16 | 18 58 29 | 28 4 17 | 19 11 | 23 38 | |
| 26 | S | 20 21 41 | 6 15 13 | 18 43 14 | 32 3 20 | 19 21 | 23 39 | |
| 27 | S | 20 25 38 | 7 16 9 | 18 28 29 | 42 2 9 | 18 7 | 23 41 | |
| 28 | M | 20 29 34 | 8 17 8 | 18 12 14 | 48 0 49 | 15 27 | 23 43 | |
| 29 | Tu | 20 33 31 | 9 17 57 | 17 56 29 | 41 0 N 33 | 12 7 | 23 44 | |
| 30 | W | 20 37 27 | 10 18 50 | 17 40 14 ^w | 12 1 51 | 7 54 | 23 46 | |
| 31 | Th | 20 41 24 | 11 19 42 | 17 24 26 | 19 3 0 | 3 30 | 23 47 | |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | |
|--------|------------|------------|------------|------------|------------|------------------|-----------------|------|-------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | |
| 1 | 8 N 19 | 26 N 29 | 0 N 15 | 23 S 10 | 2 S 7 | 24 S 17 | 26 S 10 | | |
| 4 | 8 20 | 26 27 | 0 7 | 23 21 | 2 8 | 23 31 | 26 1 | | |
| 7 | 8 21 | 26 24 | 0 0 | 23 25 | 2 3 | 22 31 | 25 51 | | |
| 10 | 8 20 | 26 21 | 0 S 7 | 23 23 | 1 55 | 21 18 | 25 42 | | |
| 13 | 8 19 | 26 17 | 0 14 | 23 14 | 1 40 | 19 51 | 25 32 | | |
| 16 | 8 18 | 26 14 | 0 21 | 22 59 | 1 18 | 18 14 | 25 23 | | |
| 19 | 8 16 | 26 11 | 0 28 | 22 37 | 0 49 | 16 31 | 25 13 | | |
| 22 | 8 15 | 26 9 | 0 35 | 22 9 | 0 11 | 14 47 | 25 4 | | |
| 25 | 8 13 | 26 7 | 0 42 | 21 36 | 0 N 35 | 13 11 | 24 54 | | |
| 28 | 8 10 | 26 5 | 0 48 | 20 56 | 1 25 | 11 56 | 24 45 | | |
| 31 | 8 7 | 26 3 | 0 54 | 20 11 | 2 17 | 11 11 | 24 35 | | |
| D
M | h
Long. | z
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lu
☉ h | ecl. | |
| 1 | 1 53 23 | 0 21 17 | 26 13 | 18 31 | | | Δ | Δ | |
| 2 | 1 56 23 | 2 20 59 | 27 28 | 20 10 | | | Δ | | |
| 3 | 1 59 23 | 3 20 43 | 28 42 | 21 49 | ☿ ☐ ♀ | | | | Δ |
| 4 | 2 2 23 | 3 20 27 | 29 58 | 23 28 | ☿ Δ ♀ | | | ☐ | |
| 5 | 2 5 23 | 4 20 11 | 1 14 25 | 6 | | | ☐ | | |
| 6 | 2 9 23 | 4 19 57 | 2 30 26 | 45 | ♀ ☐ h | | | | * ☐ |
| 7 | 2 13 23 | 5 19 44 | 3 45 28 | 24 | | | * | | |
| 8 | 2 16 23 | 5 19 31 | 5 0 0 | 3 | ☉ P ♀ | | | * | |
| 9 | 2 20 23 | 4 19 18 | 6 15 1 | 41 | h * ♀ | | Δ | | * |
| 10 | 2 24 23 | 3 19 7 | 7 31 3 | 19 | ♂ ☐ ♀ | | Δ | ☐ | ♂ |
| 11 | 2 28 23 | 2 18 57 | 8 47 4 | 56 | | | | ☐ | |
| 12 | 2 32 23 | 2 18 47 | 10 2 6 | 33 | ☉ ☐ h | | ♂ ☐ | | ♂ |
| 13 | 2 36 23 | 1 18 38 | 11 17 8 | 9 | ☉ Δ ♀ | | ♂ ☐ | * | ♂ |
| 14 | 2 40 23 | 0 18 30 | 12 32 9 | 44 | | | | * | |
| 15 | 2 44 23 | 59 18 22 | 13 47 11 | 16 | | | | | Δ |
| 16 | 2 48 23 | 57 18 16 | 15 9 12 | 47 | | | | | |
| 17 | 2 52 23 | 55 18 10 | 16 19 14 | 16 | | | | | * |
| 18 | 2 57 23 | 54 18 5 | 17 34 15 | 41 | | | * | ♂ | ♂ ☐ |
| 19 | 3 2 23 | 52 18 1 | 18 49 17 | 3 | | | | ♂ | |
| 20 | 3 6 23 | 49 17 58 | 20 4 18 | 20 | ♀ Δ ♂ | | ♂ | ♂ | * ☐ * |
| 21 | 3 11 23 | 46 17 56 | 21 20 19 | 35 | | | ☐ | | |
| 22 | 3 16 23 | 43 17 54 | 22 35 20 | 42 | ♀ ☐ h | | | | Δ |
| 23 | 3 20 23 | 40 17 53 | 23 51 21 | 43 | ☉ * h | | Δ | * | Δ ☐ |
| 24 | 3 25 23 | 38 17 53 | 25 6 22 | 38 | h * ♀ | | | | ♂ |
| 25 | 3 30 23 | 35 17 54 | 26 21 23 | 25 | | | | * | ☐ ☐ |
| 26 | 3 35 23 | 31 17 56 | 27 37 24 | 2 | | | | | |
| 27 | 3 40 23 | 27 17 58 | 28 52 24 | 30 | ☉ ☐ ♀ | | ♂ ☐ | Δ * | ♂ |
| 28 | 3 45 23 | 23 18 1 | 0 8 24 | 51 | | | ♂ | Δ | * |
| 29 | 3 51 23 | 19 18 4 | 1 23 24 | 55 | | | | | ♂ |
| 30 | 3 56 23 | 15 18 0 | 2 38 24 | 51 | | | | | ☐ |
| 31 | 4 2 23 | 11 18 14 | 3 53 24 | 36 | ♀ * h | | | ♂ | ♂ |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 34 | 8 N 21 | 2 S 17 | 0 S 27 | 1 N 25 | 4 N 26 |
| 4 | 16 | 14 | 0 34 | 8 23 | 2 17 | 0 20 | 1 26 | 4 32 |
| 7 | 16 | 14 | 0 34 | 8 25 | 2 16 | 0 12 | 1 26 | 4 39 |
| 10 | 16 | 13 | 0 33 | 8 27 | 2 16 | 0 5 | 1 27 | 4 46 |
| 13 | 16 | 13 | 0 33 | 8 30 | 2 15 | 0 N 3 | 1 27 | 4 54 |
| 16 | 16 | 12 | 0 33 | 8 32 | 2 15 | 0 11 | 1 28 | 5 2 |
| 19 | 16 | 12 | 0 33 | 8 35 | 2 15 | 0 19 | 1 28 | 5 11 |
| 22 | 16 | 11 | 0 33 | 8 38 | 2 15 | 0 27 | 1 28 | 5 19 |
| 25 | 16 | 10 | 0 33 | 8 40 | 2 14 | 0 36 | 1 28 | 5 28 |
| 28 | 16 | 10 | 0 33 | 8 43 | 2 14 | 0 44 | 1 29 | 5 38 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|-----------------------|-------------|--------------------|-----------|-------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 20 45 21 | 12 ^m 20 32 | 17 S 7 | 11 ^h 58 | 3 N 57 | 1 S 6 | 22 ^r 48 |
| 2 | S | 20 49 17 | 13 21 22 | 16 49 | 25 11 | 4 39 | 5 25 | 22 50 |
| 3 | S | 20 53 14 | 14 22 12 | 16 32 | 7 ^m 59 | 5 5 | 9 22 | 22 52 |
| 4 | M | 20 57 10 | 15 23 0 | 16 14 | 20 27 | 5 17 | 12 47 | 22 53 |
| 5 | Tu | 21 1 7 | 16 23 47 | 15 56 | 2 ^r 39 | 5 14 | 15 35 | 22 55 |
| 6 | W | 21 5 3 | 17 24 33 | 15 38 | 14 38 | 4 57 | 17 40 | 22 57 |
| 7 | Th | 21 9 0 | 18 25 18 | 15 19 | 26 31 | 4 27 | 18 58 | 22 59 |
| 8 | F | 21 12 56 | 19 26 3 | 15 0 | 8 ^w 20 | 3 46 | 19 26 | 23 1 |
| 9 | S | 21 16 53 | 20 26 46 | 14 41 | 20 8 | 2 56 | 19 3 | 23 3 |
| 10 | S | 21 20 50 | 21 27 27 | 14 22 | 2 ^h 0 | 1 58 | 17 49 | 23 5 |
| 11 | M | 21 24 46 | 22 28 8 | 14 2 | 13 57 | 0 54 | 15 47 | 23 7 |
| 12 | Tu | 21 28 43 | 23 28 47 | 13 42 | 26 2 | 0 S 13 | 13 3 | 23 9 |
| 13 | W | 21 32 39 | 24 29 25 | 13 22 | 8 ^h 16 | 1 20 | 9 43 | 23 11 |
| 14 | Th | 21 36 36 | 25 30 1 | 13 2 | 20 41 | 2 24 | 5 54 | 23 13 |
| 15 | F | 21 40 32 | 26 30 35 | 12 41 | 3 ^r 17 | 3 23 | 1 47 | 23 15 |
| 16 | S | 21 44 29 | 27 31 8 | 12 21 | 16 7 | 4 12 | 2 N 28 | 23 17 |
| 17 | S | 21 48 25 | 28 31 39 | 12 0 | 29 12 | 4 49 | 6 41 | 23 19 |
| 18 | M | 21 52 22 | 29 32 7 | 11 39 | 12 ^h 32 | 5 12 | 10 40 | 23 22 |
| 19 | Tu | 21 56 19 | 0 ^h 32 35 | 11 17 | 26 10 | 5 17 | 14 10 | 23 25 |
| 20 | W | 22 0 15 | 1 33 0 | 10 56 | 10 ^h 5 | 5 5 | 16 57 | 23 27 |
| 21 | Th | 22 4 12 | 2 33 23 | 10 34 | 24 17 | 4 34 | 18 47 | 23 29 |
| 22 | F | 22 8 8 | 3 33 44 | 10 12 | 8 ^h 45 | 3 45 | 19 26 | 23 32 |
| 23 | S | 22 12 5 | 4 34 4 | 9 51 | 23 24 | 2 41 | 18 47 | 23 34 |
| 24 | S | 22 16 1 | 5 34 21 | 9 28 | 8 ^h 10 | 1 25 | 16 52 | 23 36 |
| 25 | M | 22 19 58 | 6 34 36 | 9 6 | 22 56 | 0 5 | 13 49 | 23 39 |
| 26 | Tu | 22 23 54 | 7 34 50 | 8 41 | 7 ^h 35 | 1 N 16 | 9 55 | 23 41 |
| 27 | W | 22 27 51 | 8 35 2 | 8 21 | 22 0 | 2 30 | 5 29 | 23 44 |
| 28 | Th | 22 31 48 | 9 35 13 | 7 59 | 6 ^h 6 | 3 34 | 0 51 | 23 47 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 3 N 7 | 26 N 3 | 0 S 56 | 19 S 54 | 2 N 34 | 11 S 4 | 24 Ω 31 |
| 4 | 3 4 | 26 2 | 1 1 | 19 2 | 3 15 | 11 10 | 24 22 |
| 7 | 3 2 | 26 2 | 1 6 | 18 5 | 3 39 | 11 49 | 24 12 |
| 10 | 2 59 | 26 1 | 1 10 | 17 3 | 3 42 | 12 49 | 24 3 |
| 13 | 2 55 | 26 1 | 1 14 | 15 57 | 3 25 | 13 54 | 23 53 |
| 16 | 2 52 | 26 1 | 1 17 | 14 46 | 2 55 | 14 53 | 23 44 |
| 19 | 2 49 | 26 1 | 1 20 | 13 32 | 2 18 | 15 40 | 23 34 |
| 22 | 2 47 | 26 2 | 1 22 | 12 15 | 1 39 | 16 43 | 23 25 |
| 25 | 2 44 | 26 2 | 1 24 | 10 55 | 1 1 | 16 31 | 23 15 |
| 28 | 2 42 | 26 1 | 1 25 | 9 32 | 0 25 | 16 34 | 23 6 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | |
| 1 | 4 r 8 | 22 m 7 | 18 □ 19 | 5 m 8 | 24 m 9 | | Δ | | | | Δ | |
| 2 | 4 13 | 22 R 2 | 18 26 | 6 23 | 23 R 32 | | | ♂ | | | | Δ |
| 3 | 4 19 | 21 57 | 18 33 | 7 39 | 22 45 | ♈ * ♉ | | | | | □ | |
| 4 | 4 25 | 21 52 | 18 41 | 8 54 | 21 51 | | □ | | * | | | □ |
| 5 | 4 31 | 21 47 | 18 49 | 10 10 | 20 49 | | | | Δ | | | |
| 6 | 4 37 | 21 42 | 18 58 | 11 25 | 19 42 | ♈ ∠ ♉ | * | | | | ♊ | * |
| 7 | 4 43 | 21 37 | 19 7 | 12 39 | 18 32 | ☉ ♂ ♉ | | Δ | | □ | | * |
| 8 | 4 49 | 21 31 | 19 17 | 13 55 | 17 21 | ☉ Δ ♂ | | | □ | | Δ | |
| 9 | 4 55 | 21 25 | 19 28 | 15 10 | 16 10 | ♀ ♂ ♉ | | □ | | * | | |
| 10 | 5 1 | 21 19 | 19 39 | 16 25 | 15 2 | | | | * | | | |
| 11 | 5 7 | 21 13 | 19 51 | 17 40 | 13 58 | | | | | | Δ | ♊ |
| 12 | 5 13 | 21 7 | 20 4 | 18 56 | 13 0 | ☉ P ♉ | ♊ | * | | | | ♊ |
| 13 | 5 20 | 21 1 | 20 17 | 20 11 | 12 8 | ♊ Δ ♉ | | | | | | |
| 14 | 5 26 | 20 55 | 20 30 | 21 26 | 11 22 | | | | | ♊ | □ | |
| 15 | 5 32 | 20 49 | 20 44 | 22 41 | 10 45 | ♈ * ♉ | | | ♊ | | | |
| 16 | 5 38 | 20 42 | 20 58 | 23 56 | 10 15 | ♀ P ♉ | | | | | * | * |
| 17 | 5 44 | 20 34 | 21 13 | 25 11 | 9 52 | | * | ♊ | | | | * |
| 18 | 5 51 | 20 28 | 21 29 | 26 27 | 9 38 | | | | | | | □ |
| 19 | 5 58 | 20 21 | 21 45 | 27 42 | 9 31 | | □ | | | Δ | | □ |
| 20 | 6 5 | 20 14 | 22 1 | 28 57 | 9 D 30 | | | | * | | | Δ |
| 21 | 6 12 | 20 7 | 22 18 | 0 * 12 | 9 36 | | | * | | □ | ♊ | Δ |
| 22 | 6 19 | 20 0 | 22 35 | 1 27 | 9 49 | | Δ | | | □ | | |
| 23 | 6 26 | 19 53 | 22 53 | 2 42 | 10 7 | | | | | * | | |
| 24 | 6 33 | 19 45 | 23 11 | 3 57 | 10 31 | | | | Δ | | | ♊ |
| 25 | 6 39 | 19 38 | 23 29 | 5 12 | 11 0 | | | Δ | | | * | |
| 26 | 6 46 | 19 31 | 23 48 | 6 27 | 11 33 | ☉ P ♈ | ♊ | | | | | ♊ |
| 27 | 6 53 | 19 23 | 24 7 | 7 42 | 12 12 | ☉ ♂ ♉ | | | | ♊ | □ | |
| 28 | 7 0 | 19 15 | 24 27 | 8 57 | 12 54 | | | | ♊ | | | |

MARCH XXXI DAYS.

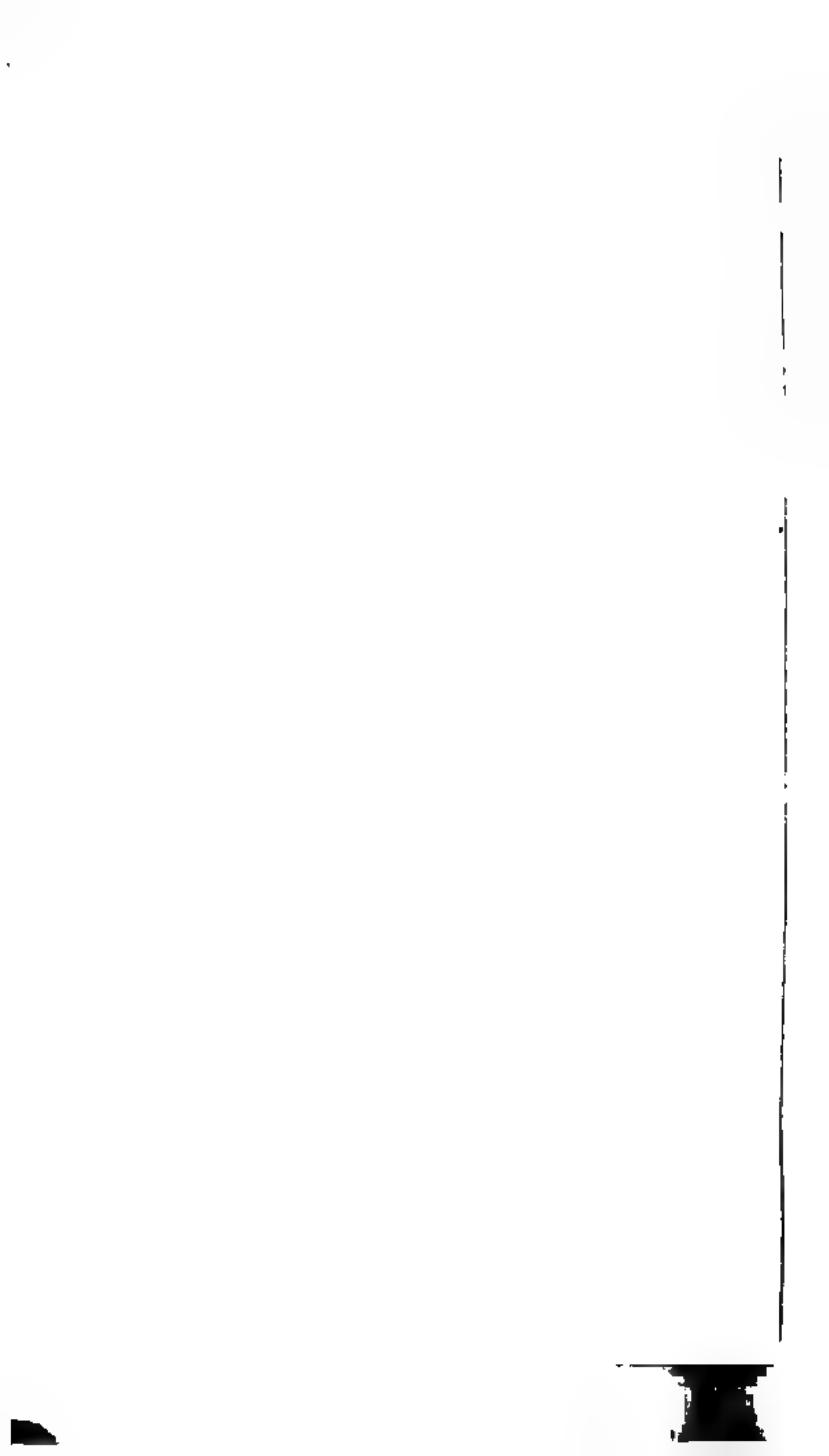
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 9 | 0 8 33 | 8 N 44 | 2 S 14 | 0 N 47 | 1 N 30 | 5 N 41 |
| 4 | 16 | 8 | 0 33 | 8 48 | 2 14 | 0 55 | 1 30 | 5 50 |
| 7 | 16 | 8 | 0 33 | 8 51 | 2 14 | 1 4 | 1 30 | 5 59 |
| 10 | 16 | 7 | 0 33 | 8 54 | 2 13 | 1 13 | 1 30 | 6 9 |
| 13 | 16 | 6 | 0 33 | 8 57 | 2 13 | 1 22 | 1 30 | 6 16 |
| 16 | 16 | 5 | 0 33 | 9 1 | 2 13 | 1 30 | 1 30 | 6 27 |
| 19 | 16 | 4 | 0 33 | 9 4 | 2 13 | 1 39 | 1 30 | 6 36 |
| 22 | 16 | 4 | 0 33 | 9 8 | 2 13 | 1 48 | 1 30 | 6 45 |
| 25 | 16 | 3 | 0 33 | 9 12 | 2 13 | 1 57 | 1 30 | 6 53 |
| 28 | 16 | 2 | 0 33 | 9 15 | 2 13 | 2 6 | 1 30 | 7 1 |
| 31 | 16 | 1 | 0 33 | 9 19 | 2 13 | 2 15 | 1 29 | 7 8 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 22 35 44 | 10 35 21 | 7 3 36 | 19 49 | 4 N 22 | 3 S 42 | 23 50 |
| 2 | S | 22 39 41 | 11 35 28 | 7 13 3 | 3 8 | 4 56 | 7 56 | 23 53 |
| 3 | S | 22 43 37 | 12 35 34 | 6 50 16 | 3 | 5 13 | 11 39 | 23 55 |
| 4 | M | 22 47 34 | 13 35 37 | 6 27 28 | 36 | 5 15 | 14 45 | 23 58 |
| 5 | Tu | 22 51 30 | 14 35 40 | 6 4 10 | 52 | 5 2 | 17 7 | 24 0 |
| 6 | W | 22 55 27 | 15 35 40 | 5 51 22 | 58 | 4 35 | 18 41 | 24 8 |
| 7 | Th | 22 59 23 | 16 35 39 | 5 18 4 | 46 | 3 58 | 19 25 | 24 6 |
| 8 | F | 23 3 20 | 17 35 36 | 4 54 16 | 34 | 3 10 | 19 45 | 24 9 |
| 9 | S | 23 7 17 | 18 35 32 | 4 31 28 | 24 | 2 15 | 18 29 | 24 13 |
| 10 | S | 23 11 13 | 19 35 26 | 4 10 19 | 1 | 1 13 | 16 23 | 24 15 |
| 11 | M | 23 15 10 | 20 35 18 | 3 44 22 | 22 | 0 7 | 13 57 | 24 18 |
| 12 | Tu | 23 19 6 | 21 35 8 | 3 20 4 | 37 | 1 3 | 10 45 | 24 21 |
| 13 | W | 23 23 3 | 22 34 56 | 2 57 17 | 3 | 2 5 | 7 1 | 24 24 |
| 14 | Th | 23 26 59 | 23 34 43 | 2 33 29 | 49 | 3 5 | 2 54 | 24 27 |
| 15 | F | 23 30 56 | 24 34 27 | 2 9 12 | 48 | 3 57 | 1 N 25 | 24 30 |
| 16 | S | 23 34 53 | 25 34 9 | 1 46 26 | 1 | 4 37 | 5 45 | 24 34 |
| 17 | S | 23 38 49 | 26 33 49 | 1 22 9 | 27 | 5 3 | 9 52 | 24 37 |
| 18 | M | 23 42 45 | 27 33 27 | 0 58 23 | 5 | 5 12 | 13 31 | 24 40 |
| 19 | Tu | 23 46 42 | 28 33 3 | 0 35 6 | 53 | 5 8 | 16 30 | 24 43 |
| 20 | W | 23 50 39 | 29 32 36 | 0 11 20 | 51 | 4 36 | 18 33 | 24 46 |
| 21 | Th | 23 54 35 | 0 32 7 | 0 N 13 | 45 56 | 3 53 | 19 29 | 24 50 |
| 22 | F | 23 58 32 | 1 31 35 | 0 36 19 | 8 | 2 55 | 19 12 | 24 53 |
| 23 | S | 0 2 28 | 2 31 2 | 1 0 3 | 24 | 1 46 | 17 42 | 24 56 |
| 24 | S | 0 6 25 | 3 30 25 | 1 24 17 | 43 | 0 30 | 15 4 | 24 59 |
| 25 | M | 0 10 21 | 4 29 47 | 1 47 2 | 1 | 0 N 48 | 11 31 | 25 3 |
| 26 | Tu | 0 14 18 | 5 29 7 | 2 11 16 | 14 | 2 2 | 13 25 | 25 6 |
| 27 | W | 0 18 14 | 6 28 24 | 2 34 0 | 19 | 3 8 | 15 25 | 25 9 |
| 28 | Th | 0 22 11 | 7 27 39 | 2 58 14 | 10 | 4 1 | 15 35 | 25 12 |
| 29 | F | 0 26 8 | 8 26 53 | 3 21 27 | 44 | 4 39 | 19 25 | 25 15 |
| 30 | S | 0 30 4 | 9 26 4 | 3 44 10 | 58 | 5 2 | 21 23 | 25 19 |
| 31 | S | 0 34 1 | 10 25 13 | 4 8 28 | 52 | 5 8 | 27 25 | 25 22 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 2 N 39 | 26 N 1 | 1 S 25 | 9 S 4 | 0 N 13 | 16 S 32 | 23 Ω 2 |
| 4 | 2 36 | 26 0 | 1 25 | 7 39 | 0 S 19 | 16 16 | 22 53 |
| 7 | 2 33 | 25 59 | 1 25 | 6 11 | 0 48 | 15 47 | 22 43 |
| 10 | 2 31 | 25 58 | 1 25 | 4 42 | 1 12 | 15 4 | 22 34 |
| 13 | 2 28 | 25 56 | 1 24 | 3 12 | 1 33 | 14 9 | 22 24 |
| 16 | 2 26 | 25 53 | 1 22 | 1 41 | 1 51 | 13 2 | 22 15 |
| 19 | 2 23 | 25 50 | 1 20 | 0 10 | 2 4 | 11 43 | 22 5 |
| 22 | 2 21 | 25 46 | 1 16 | 1 N 22 | 2 15 | 10 13 | 21 56 |
| 25 | 2 18 | 25 41 | 1 13 | 2 53 | 2 20 | 8 31 | 21 46 |
| 28 | 2 16 | 25 35 | 1 9 | 4 24 | 2 22 | 6 39 | 21 37 |
| 31 | 2 13 | 25 29 | 1 5 | 5 54 | 2 18 | 4 36 | 21 27 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|--------|---------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | ☉ | ☿ | ♈ | ♄ | ♊ | ♋ | ♌ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 7 r 7 | 19 m 8 | 24 n 47 | 10 x 12 | 13 m 40 | | | ♊ | | | Δ | | Δ |
| 2 | 7 14 | 19 R 0 | 25 7 | 11 26 | 14 29 | | | | | | | | |
| 3 | 7 21 | 18 53 | 25 28 | 12 42 | 15 22 | ☉ ♂ ♀ | Δ | | | * | | Δ | □ |
| 4 | 7 28 | 18 44 | 25 49 | 13 57 | 16 18 | | | | | | | | |
| 5 | 7 35 | 18 36 | 26 11 | 15 12 | 17 17 | ☉ P ♄ | □ | | Δ | | | □ | |
| 6 | 7 42 | 18 29 | 26 32 | 16 26 | 18 18 | | | Δ | | □ | ♊ | | * |
| 7 | 7 50 | 18 22 | 26 54 | 17 41 | 19 22 | ♄ ♂ ♀ | | | □ | | | | |
| 8 | 7 57 | 18 13 | 27 16 | 18 56 | 20 28 | ☉ ♂ ♄ | * | | | Δ | | * | |
| 9 | 8 4 | 18 4 | 27 39 | 20 11 | 21 36 | | | □ | | | | | |
| 10 | 8 11 | 17 57 | 28 2 | 21 26 | 22 48 | | | | * | | | | |
| 11 | 8 18 | 17 50 | 28 25 | 22 41 | 24 1 | ♈ * ♀ | | * | | | | | ♌ |
| 12 | 8 26 | 17 42 | 28 49 | 23 56 | 25 15 | | | | | | Δ | | |
| 13 | 8 34 | 17 35 | 29 12 | 25 10 | 26 31 | | ♌ | | | ♊ | | | |
| 14 | 8 41 | 17 26 | 29 37 | 26 25 | 27 49 | | | | | | □ | ♌ | |
| 15 | 8 48 | 17 18 | 0 ♄ 1 | 27 40 | 29 9 | ☉ P ♀ | | | ♌ | | | | |
| 16 | 8 55 | 17 11 | 0 25 | 28 54 | 0 x 31 | ♊ Δ ♀ | | ♌ | | | * | | * |
| 17 | 9 2 | 17 3 | 0 50 | 0 r 9 | 1 53 | | | | | | | | |
| 18 | 9 9 | 16 56 | 1 15 | 1 24 | 3 17 | ♊ □ ♀ | * | | | Δ | | | |
| 19 | 9 17 | 16 48 | 1 40 | 2 38 | 4 44 | | | | * | | | * | □ |
| 20 | 9 24 | 16 41 | 2 6 | 3 53 | 6 12 | | | * | | □ | | | |
| 21 | 9 32 | 16 33 | 2 31 | 5 7 | 7 40 | | □ | | □ | | ♌ | □ | Δ |
| 22 | 9 40 | 16 26 | 2 58 | 6 22 | 9 10 | ♈ ∠ ♀ | | □ | | * | | | |
| 23 | 9 47 | 16 19 | 3 24 | 7 37 | 10 42 | | Δ | | Δ | | | Δ | |
| 24 | 9 55 | 16 12 | 3 50 | 8 51 | 12 15 | ♀ P ♈ | | | | | | | |
| 25 | 10 3 | 16 4 | 4 17 | 10 6 | 13 50 | ☉ □ ♂ | | Δ | | | * | | |
| 26 | 10 10 | 15 57 | 4 43 | 11 21 | 15 26 | ♄ ♂ ♀ | | | | ♌ | | | ♊ |
| 27 | 10 18 | 15 50 | 5 10 | 12 35 | 17 3 | ♀ P ♄ | ♊ | | | | □ | | |
| 28 | 10 25 | 15 44 | 5 37 | 13 49 | 18 41 | | | | ♊ | | | ♊ | |
| 29 | 10 33 | 15 37 | 6 6 | 15 4 | 20 21 | | | ♊ | | | | | |
| 30 | 10 40 | 15 30 | 6 33 | 16 18 | 22 3 | | | | | * | Δ | | |
| 31 | 10 48 | 15 23 | 7 1 | 17 32 | 23 45 | ☉ ♂ h | | | | | | | Δ |



APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 2 N 12 | 25 N 27 | 1 S 3 | 6 N 24 | 2 S 17 | 3 S 53 | 21 Ω 24 |
| 4 | 2 10 | 25 19 | 0 58 | 7 52 | 2 8 | 1 37 | 21 15 |
| 7 | 2 7 | 25 10 | 0 53 | 9 19 | 1 55 | 0 N 48 | 21 5 |
| 10 | 2 5 | 25 0 | 0 46 | 10 44 | 1 38 | 3 21 | 20 56 |
| 13 | 2 2 | 24 49 | 0 40 | 12 7 | 1 15 | 6 0 | 20 46 |
| 16 | 2 0 | 24 38 | 0 33 | 13 27 | 0 49 | 8 43 | 20 37 |
| 19 | 1 57 | 24 25 | 0 27 | 14 44 | 0 19 | 11 27 | 20 27 |
| 22 | 1 55 | 24 11 | 0 20 | 15 58 | 0 N 13 | 14 7 | 20 18 |
| 25 | 1 52 | 23 55 | 0 13 | 17 8 | 0 45 | 16 38 | 20 8 |
| 28 | 1 50 | 23 39 | 0 6 | 18 14 | 1 16 | 18 53 | 19 59 |

| D
M | h | ♄ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|---------|--------|---------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 10 r 55 | 15 m 17 | 7 Ω 28 | 18 r 47 | 25 * 30 | | Δ | | Δ | | | |
| 2 | 11 3 | 15 R 11 | 7 56 | 20 1 | 27 16 | | | | | □ | | Δ |
| 3 | 11 10 | 15 5 | 8 25 | 21 16 | 29 3 | ♀ P h | | Δ | | | | □ |
| 4 | 11 18 | 14 59 | 8 53 | 22 30 | 0 r 51 | ♄ □ ♀ | □ | | □ | Δ | ♂ | |
| 5 | 11 25 | 14 52 | 9 21 | 23 44 | 2 41 | | | □ | | | | □ |
| 6 | 11 33 | 14 47 | 9 51 | 24 58 | 4 32 | | | | * | | | * |
| 7 | 11 41 | 14 42 | 10 20 | 26 13 | 6 25 | ☿ ♂ ♀ | * | | | | | * |
| 8 | 11 48 | 14 36 | 10 49 | 27 27 | 8 20 | | | * | | | | * |
| 9 | 11 56 | 14 30 | 11 18 | 28 42 | 10 15 | | | | | ♂ | Δ | |
| 10 | 12 3 | 14 25 | 11 47 | 29 56 | 12 13 | h ♂ ♀ | | | | | | |
| 11 | 12 11 | 14 20 | 12 16 | 1 10 | 14 12 | ♂ □ h | | | ♂ | | □ | |
| 12 | 12 18 | 14 15 | 12 46 | 2 24 | 16 12 | | ♂ | ♂ | | | | ♂ |
| 13 | 12 25 | 14 10 | 13 16 | 3 39 | 18 13 | | | | | | | ♂ |
| 14 | 12 33 | 14 5 | 13 46 | 4 52 | 20 16 | | | | | Δ | * | |
| 15 | 12 40 | 14 1 | 14 16 | 6 6 | 22 20 | ♄ * ♂ | | | | | | |
| 16 | 12 47 | 13 57 | 14 46 | 7 21 | 24 25 | ☉ ♂ ☿ | | | * | □ | | |
| 17 | 12 55 | 13 53 | 15 16 | 8 35 | 26 31 | ☿ ♂ ♀ | * | * | | | | * |
| 18 | 13 2 | 13 49 | 15 47 | 9 48 | 28 38 | ☉ ♂ ♀ | | | □ | * | ♂ | * |
| 19 | 13 9 | 13 45 | 16 18 | 11 2 | 0 45 | ☉ ∠ ♄ | □ | □ | | | | □ |
| 20 | 13 17 | 13 41 | 16 48 | 12 16 | 2 53 | | | | Δ | | | □ |
| 21 | 13 25 | 13 38 | 17 18 | 13 31 | 5 1 | | Δ | Δ | | | | |
| 22 | 13 32 | 13 35 | 17 49 | 14 44 | 7 9 | | | | | ♂ | * | Δ |
| 23 | 13 40 | 13 32 | 18 20 | 15 58 | 9 17 | | | | | | | Δ |
| 24 | 13 47 | 13 28 | 18 52 | 17 12 | 11 24 | | | | ♂ | | | |
| 25 | 13 54 | 13 25 | 19 23 | 18 26 | 13 30 | ♄ Δ ♀ | | ♂ | | | □ | |
| 26 | 14 2 | 13 23 | 19 55 | 19 40 | 15 35 | ♂ * ♀ | ♂ | | | | | |
| 27 | 14 9 | 13 20 | 20 26 | 20 53 | 17 39 | | | | | * | Δ | ♂ |
| 28 | 14 16 | 13 18 | 20 57 | 22 7 | 19 40 | | | | | | | ♂ |
| 29 | 14 23 | 13 16 | 21 29 | 23 21 | 21 39 | ♂ * ♀ | | | Δ | □ | | |
| 30 | 14 30 | 13 15 | 22 1 | 24 35 | 23 36 | | | Δ | | | | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 49 | 23 N 22 | 0 N 2 | 19 N 16 | 1 N 42 | 20 N 49 | 19 2 49 |
| 4 | 1 47 | 23 3 | 0 10 | 20 14 | 2 4 | 22 24 | 19 40 |
| 7 | 1 44 | 22 43 | 0 18 | 21 6 | 2 20 | 23 36 | 19 30 |
| 10 | 1 ■■ | 22 22 | 0 25 | 21 53 | 2 27 | 24 26 | 19 21 |
| 13 | 1 40 | 22 0 | 0 32 | 22 35 | 2 28 | 24 56 | 19 11 |
| 16 | 1 38 | 21 37 | 0 39 | 23 11 | 2 16 | 22 7 | 19 2 |
| 19 | 1 36 | 21 13 | 0 47 | 23 41 | 1 59 | 21 3 | 18 52 |
| 22 | 1 34 | 20 48 | 0 54 | 24 5 | 1 33 | 20 5 | 18 43 |
| 25 | 1 32 | 20 21 | 1 0 | 24 28 | 0 59 | 19 5 | 18 33 |
| 28 | 1 30 | 19 53 | 1 6 | 24 35 | 0 17 | 18 5 | 18 24 |
| 31 | 1 28 | 19 25 | 1 12 | 24 39 | 0 31 | 17 7 | 18 14 |

| D
M | h | | M | | J | | ♀ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|----------------|---|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☉ | ☽ | h | M | J | ♀ | ♂ |
| 1 | 14 | 37 | 13 | 13 | 22 | 32 | 25 | 49 | 25 | 31 | ♀ ♂ ♀ | Δ | | ■ | Δ | | | |
| 2 | 14 | 44 | 13 | 11 | 23 | 4 | 27 | 2 | 27 | 22 | | | | | | ♂ | | |
| 3 | 14 | 51 | 13 | 10 | 23 | 37 | 28 | 16 | 29 | 11 | | □ | | | | | Δ | Δ |
| 4 | 14 | 57 | 13 | 9 | 24 | 9 | 29 | 30 | 0 | 57 | ☉ Δ M | □ | | ■ | | | | |
| 5 | 15 | 4 | 13 | 8 | 24 | 41 | 0 | 43 | 2 | 38 | | | * | | | | | □ |
| 6 | 15 | 11 | 13 | 7 | 25 | 13 | 1 | 56 | 4 | 16 | | | | | | | | □ |
| 7 | 15 | 17 | 13 | 7 | 25 | 46 | 3 | 10 | 5 | 52 | | | | | | | | |
| 8 | 15 | 24 | 13 | 6 | 26 | 18 | 4 | 24 | 7 | 22 | | | | | | | * | * |
| 9 | 15 | 31 | 13 | 6 | 26 | 51 | 5 | 37 | 8 | 51 | | | | | | | | |
| 10 | 15 | 37 | 13 | 6 | 27 | 23 | 6 | 51 | 10 | 14 | | | | | | | | |
| 11 | 15 | 44 | 13 | 6 | 27 | 56 | 8 | 5 | 11 | 34 | h □ ♂ | ♂ | | | Δ | * | | |
| 12 | 15 | 51 | 13 | D | 6 | 28 | 29 | 9 | 18 | 12 | 49 | h □ ♀ | | | | * | ♂ | ♂ |
| 13 | 15 | 57 | 13 | 7 | 29 | 2 | 10 | 8 | 14 | 2 | | | * | * | □ | | | |
| 14 | 16 | 4 | 13 | 8 | 29 | 35 | 11 | 45 | 15 | 10 | | | * | | | | | |
| 15 | 16 | 11 | 13 | 9 | 0 | Ω | 8 | 12 | 58 | 13 | h * ♀ | | | □ | * | | | |
| 16 | 16 | 17 | 13 | 10 | 0 | 41 | 14 | 13 | 17 | 13 | | * | □ | | | ♂ | * | |
| 17 | 16 | 24 | 13 | 11 | 1 | 14 | 15 | 25 | 18 | 8 | | | | Δ | | * | * | |
| 18 | 16 | 31 | 13 | 12 | 1 | 47 | 16 | 38 | 18 | 59 | h * ♀ | □ | Δ | | | | | * |
| 19 | 16 | 37 | 13 | 14 | 2 | 21 | 17 | 51 | 19 | 46 | | | | | ♂ | | | |
| 20 | 16 | 43 | 13 | 16 | 2 | 54 | 19 | 4 | 20 | 28 | | | | | | | □ | □ |
| 21 | 16 | 49 | 13 | 18 | 3 | 28 | 20 | 17 | 21 | 6 | | Δ | | | | * | | |
| 22 | 16 | 55 | 13 | 20 | 4 | 1 | 31 | 31 | 21 | 39 | ♀ ♂ ♀ | | | ♂ | | * | Δ | Δ |
| 23 | 17 | 1 | 13 | 22 | 4 | 35 | 22 | 44 | 22 | 8 | ☉ Δ h | | ♂ | | | ■ | | |
| 24 | 17 | 7 | 13 | 25 | 5 | 9 | 23 | 57 | 22 | 32 | | | | | * | | | |
| 25 | 17 | 13 | 13 | 27 | 5 | 43 | 25 | 10 | 22 | 51 | | ♂ | | | | | | |
| 26 | 17 | 19 | 13 | 30 | 6 | 17 | 26 | 23 | 23 | 6 | | | | | | | | |
| 27 | 17 | 25 | 13 | 32 | 6 | 50 | 27 | 36 | 23 | 16 | | | Δ | | | | | |
| 28 | 17 | 31 | 13 | 36 | 7 | 24 | 28 | 50 | 23 | 21 | h * ♀ | | | | | | | |
| 29 | 17 | 37 | 13 | 39 | 7 | 58 | 0 | 3 | 23 | 21 | | | | | | | | |
| 30 | 17 | 43 | 13 | 43 | 8 | 32 | 1 | 16 | 23 | 17 | ☉ * ♂ | | □ | | | | | |
| 31 | 17 | 49 | 13 | 47 | 9 | 6 | 2 | 28 | 23 | 9 | | Δ | | | | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 S 33 | 10 N 32 | 2 S 19 | 4 N 53 | 1 N 18 | 7 N 34 |
| 4 | 15 | 47 | 0 33 | 10 35 | 2 20 | 4 59 | 1 17 | 7 29 |
| 7 | 15 | 46 | 0 33 | 10 37 | 2 21 | 5 4 | 1 17 | 7 23 |
| 10 | 15 | 46 | 0 33 | 10 40 | 2 21 | 5 9 | 1 16 | 7 16 |
| 13 | 15 | 46 | 0 34 | 10 42 | 2 22 | 5 14 | 1 15 | 7 9 |
| 16 | 15 | 46 | 0 34 | 10 45 | 2 22 | 5 19 | 1 15 | 7 2 |
| 19 | 15 | 45 | 0 34 | 10 47 | 2 23 | 5 23 | 1 15 | 6 54 |
| 22 | 15 | 45 | 0 34 | 10 49 | 2 23 | 5 27 | 1 15 | 6 46 |
| 25 | 15 | 45 | 0 34 | 10 51 | 2 24 | 5 31 | 1 15 | 6 37 |
| 28 | 15 | 45 | 0 34 | 10 53 | 2 25 | 5 34 | 1 14 | 6 28 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | S | 4 38 27 | 10 ♀ 34 16 | 22 N 3 | 22 ♄ 17 | 0 S 29 | 14 S 33 | 28 ♄ 45 |
| 2 | S | 4 42 24 | 11 31 43 | 22 11 | 4 ♄ 13 | 1 31 | 11 23 | 28 48 |
| 3 | M | 4 46 20 | 12 29 9 | 22 19 | 16 21 | 2 31 | 7 42 | 28 50 |
| 4 | Tu | 4 50 17 | 13 26 34 | 22 26 | 28 46 | 3 24 | 3 37 | 28 53 |
| 5 | W | 4 54 13 | 14 23 59 | 22 33 | 11 ♄ 33 | 4 10 | 0 N 45 | 28 55 |
| 6 | Th | 4 58 10 | 15 21 23 | 22 39 | 24 46 | 4 43 | 5 12 | 28 58 |
| 7 | F | 5 2 6 | 16 18 47 | 22 45 | 8 ♄ 27 | 5 2 | 9 34 | 29 0 |
| 8 | S | 5 6 3 | 17 16 10 | 22 51 | 22 35 | 5 3 | 13 32 | 29 3 |
| 9 | S | 5 9 59 | 18 13 32 | 22 56 | 7 ♀ 6 | 4 46 | 16 49 | 29 5 |
| 10 | M | 5 13 56 | 19 10 53 | 23 1 | 21 54 | 4 9 | 19 4 | 29 8 |
| 11 | Tu | 5 17 53 | 20 8 14 | 23 5 | 6 ♄ 51 | 3 14 | 20 3 | 29 10 |
| 12 | W | 5 21 49 | 21 5 34 | 23 9 | 21 47 | 2 6 | 19 37 | 29 13 |
| 13 | Th | 5 25 46 | 22 2 53 | 23 13 | 6 ♄ 36 | 0 50 | 17 50 | 29 16 |
| 14 | F | 5 29 42 | 23 0 11 | 23 16 | 21 10 | 0 N 28 | 14 54 | 29 18 |
| 15 | S | 5 33 39 | 23 57 29 | 23 19 | 5 ♄ 27 | 1 43 | 11 7 | 29 20 |
| 16 | S | 5 37 35 | 24 54 46 | 23 22 | 19 24 | 2 50 | 6 48 | 29 23 |
| 17 | M | 5 41 32 | 25 52 2 | 23 24 | 3 ♄ 1 | 3 46 | 2 15 | 29 25 |
| 18 | Tu | 5 45 29 | 26 49 17 | 23 25 | 16 21 | 4 28 | 2 S 18 | 29 27 |
| 19 | W | 5 49 25 | 27 46 31 | 23 26 | 29 25 | 4 56 | 6 40 | 29 29 |
| 20 | Th | 5 53 22 | 28 43 45 | 23 27 | 12 ♄ 13 | 5 7 | 10 38 | 29 31 |
| 21 | F | 5 57 18 | 29 40 58 | 23 27 | 24 49 | 5 4 | 14 4 | 29 33 |
| 22 | S | 6 1 15 | 0 ♄ 38 11 | 23 27 | 7 ♄ 14 | 4 47 | 16 49 | 29 35 |
| 23 | S | 6 5 11 | 1 35 23 | 23 27 | 19 28 | 4 16 | 18 47 | 29 37 |
| 24 | M | 6 9 8 | 2 32 35 | 23 26 | 1 ♄ 33 | 3 34 | 19 53 | 29 39 |
| 25 | Tu | 6 13 4 | 3 29 46 | 23 25 | 13 30 | 2 43 | 20 4 | 29 41 |
| 26 | W | 6 17 1 | 4 26 57 | 23 23 | 25 21 | 1 45 | 19 21 | 29 43 |
| 27 | Th | 6 20 58 | 5 24 8 | 23 21 | 7 ♄ 9 | 0 43 | 17 48 | 29 45 |
| 28 | F | 6 24 54 | 6 21 20 | 23 18 | 18 57 | 0 S 21 | 15 29 | 29 47 |
| 29 | S | 6 28 51 | 7 18 31 | 23 15 | 0 ♄ 47 | 1 24 | 12 31 | 29 49 |
| 30 | S | 6 32 47 | 8 15 42 | 23 12 | 12 44 | 2 25 | 9 1 | 29 51 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|---|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' | | | | | | |

| D
M | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----------|---------|--------|--------|----------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♁ | ♂ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 17 r 54 | 13 m 50 | 9 Q 41 | 3 S 41 | 22 II 56 | | | | | * | | | | Δ |
| 2 | 18 0 13 | 55 10 | 15 4 | 54 22 | R 39 | ♄ P ☉ | | * | | | | | Δ | |
| 3 | 18 6 13 | 59 10 | 49 6 | 7 22 | 20 | | | ☐ | | ♄ | | | | ☐ |
| 4 | 18 11 14 | 3 11 | 33 7 | 20 21 | 56 | | | | | | | | | |
| 5 | 18 16 14 | 7 11 | 58 8 | 33 21 | 29 | ☉ ☐ ♄ | | * | | | | Δ | ☐ | |
| 6 | 18 21 14 | 12 12 | 33 9 | 46 21 | 1 | | | | ♄ | ♄ | | | | * |
| 7 | 18 26 14 | 16 13 | 8 10 | 58 20 | 30 | | | | | | Δ | ☐ | * | |
| 8 | 18 31 14 | 21 13 | 42 12 | 11 19 | 58 | | | | | | | | | |
| 9 | 18 36 14 | 26 14 | 17 13 | 24 19 | 24 | ☉ * ♄ | | | | | ☐ | * | | ♄ |
| 10 | 18 41 14 | 32 14 | 52 14 | 36 18 | 50 | ♀ * ♄ | | ♄ | * | * | | * | | ♄ |
| 11 | 18 46 14 | 37 15 | 26 15 | 49 18 | 17 | | | | | | | | | |
| 12 | 18 51 14 | 43 16 | 1 17 | 1 17 | 45 | | | | | ☐ | * | | ♄ | |
| 13 | 18 55 14 | 48 16 | 36 18 | 14 17 | 13 | | | | | ☐ | | | | |
| 14 | 19 0 14 | 54 17 | 11 19 | 27 16 | 44 | ♄ ☐ ♄ | | * | | Δ | | ♄ | | * |
| 15 | 19 5 15 | 0 17 | 46 20 | 39 16 | 16 | | | | Δ | | | | | |
| 16 | 19 10 15 | 6 18 | 21 21 | 51 15 | 52 | ☉ P ♄ | | ☐ | | | ♄ | | * | ☐ |
| 17 | 19 14 15 | 12 18 | 56 23 | 3 15 | 31 | | | | | | | | | |
| 18 | 19 18 15 | 19 19 | 31 24 | 16 15 | 13 | ♄ Δ ♄ | | | | ♄ | | * | | Δ |
| 19 | 19 22 15 | 25 20 | 7 25 | 29 15 | 0 | | | Δ | ♄ | | | | ☐ | |
| 20 | 19 27 15 | 32 20 | 42 26 | 41 14 | 51 | | | | | | * | | | |
| 21 | 19 31 15 | 38 21 | 18 27 | 53 14 | 46 | ☉ * ☿ | | | | | | | ☐ | Δ |
| 22 | 19 35 15 | 45 21 | 53 29 | 5 14 | D 45 | ☿ ☐ ♄ | | | | | | | | |
| 23 | 19 39 15 | 52 22 | 29 0 Q | 18 14 | 49 | | | | | Δ | ☐ | Δ | | ♄ |
| 24 | 19 43 16 | 0 23 | 3 1 | 30 14 | 58 | | | ♄ | Δ | | | | | |
| 25 | 19 47 16 | 8 23 | 40 2 | 42 15 | 12 | | | | | | Δ | | | |
| 26 | 19 51 16 | 15 24 | 15 3 | 54 15 | 31 | | | | | ☐ | ☐ | | | |
| 27 | 19 55 16 | 22 24 | 51 5 | 6 15 | 54 | | | | | | | | ♄ | |
| 28 | 19 58 16 | 29 25 | 26 6 | 18 16 | 22 | ♄ ☐ ♄ | | | * | * | | | | Δ |
| 29 | 20 1 16 | 37 26 | 2 7 | 30 16 | 55 | | | | * | | | ♄ | | |
| 30 | 20 4 16 | 46 26 | 38 8 | 42 17 | 32 | | | Δ | | | ♄ | ♄ | | ☐ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 S 33 | 10 N 55 | 2 S 26 | 5 N 37 | 1 N 13 | 6 N 18 |
| 4 | 15 | 45 | 0 33 | 10 57 | 2 27 | 5 40 | 1 13 | 6 8 |
| 7 | 15 | 45 | 0 33 | 10 58 | 2 28 | 5 42 | 1 12 | 5 57 |
| 10 | 15 | 45 | 0 33 | 11 0 | 2 29 | 5 44 | 1 12 | 5 46 |
| 13 | 15 | 45 | 0 33 | 11 1 | 2 29 | 5 46 | 1 11 | 5 35 |
| 16 | 15 | 46 | 0 34 | 11 2 | 2 30 | 5 47 | 1 11 | 5 24 |
| 19 | 15 | 46 | 0 34 | 11 3 | 2 31 | 5 48 | 1 11 | 5 12 |
| 22 | 15 | 46 | 0 34 | 11 3 | 2 32 | 5 49 | 1 11 | 4 59 |
| 25 | 15 | 46 | 0 34 | 11 4 | 2 32 | 5 50 | 1 10 | 4 47 |
| 28 | 15 | 47 | 0 34 | 11 4 | 2 33 | 5 50 | 1 10 | 4 34 |
| 31 | 15 | 47 | 0 34 | 11 5 | 2 34 | 5 49 | 1 9 | 4 21 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 6 36 44 | 9♄12 54 | 23 N 8 | 24♄52 | 3 S 20 | 5 S 6 | 29♄52 |
| 2 | Tu | 6 40 40 | 10 10 6 | 23 4 | 7♄16 | 4 7 | 0 54 | 29 54 |
| 3 | W | 6 44 37 | 11 7 18 | 22 59 | 20 1 | 4 44 | 3 N 27 | 29 56 |
| 4 | Th | 6 48 33 | 12 4 30 | 22 54 | 3♄11 | 5 6 | 7 47 | 29 57 |
| 5 | F | 6 52 30 | 13 1 43 | 22 49 | 16 48 | 5 13 | 11 52 | 29 59 |
| 6 | S | 6 56 27 | 13 58 56 | 22 43 | 0♄54 | 5 1 | 15 26 | 0♄0 |
| 7 | S | 7 0 23 | 14 56 10 | 22 37 | 15 25 | 4 30 | 18 11 | 0 1 |
| 8 | M | 7 4 20 | 15 53 23 | 22 31 | 0♄17 | 3 41 | 19 47 | 0 3 |
| 9 | Tu | 7 8 16 | 16 50 37 | 22 24 | 15 23 | 2 35 | 20 0 | 0 4 |
| 10 | W | 7 12 13 | 17 47 51 | 22 16 | 0♄34 | 1 18 | 18 47 | 0 5 |
| 11 | Th | 7 16 9 | 18 45 6 | 22 9 | 15 39 | 0 N 5 | 16 14 | 0 7 |
| 12 | F | 7 20 6 | 19 42 20 | 22 1 | 0♄30 | 1 25 | 12 38 | 0 8 |
| 13 | S | 7 24 2 | 20 39 35 | 21 52 | 15 1 | 2 39 | 8 21 | 0 9 |
| 14 | S | 7 27 59 | 21 36 49 | 21 43 | 29 10 | 3 41 | 3 42 | 0 10 |
| 15 | M | 7 31 56 | 22 34 4 | 21 34 | 12♄53 | 4 28 | 0 S 59 | 0 11 |
| 16 | Tu | 7 35 52 | 23 31 19 | 21 24 | 26 14 | 4 59 | 5 29 | 0 12 |
| 17 | W | 7 39 49 | 24 28 35 | 21 14 | 9♄13 | 5 14 | 9 37 | 0 13 |
| 18 | Th | 7 43 45 | 25 25 50 | 21 4 | 21 53 | 5 13 | 13 12 | 0 14 |
| 19 | F | 7 47 42 | 26 23 6 | 20 53 | 4♄18 | 4 58 | 16 9 | 0 14 |
| 20 | S | 7 51 38 | 27 20 22 | 20 42 | 16 31 | 4 29 | 18 19 | 0 15 |
| 21 | S | 7 55 35 | 28 17 38 | 20 31 | 28 34 | 3 48 | 19 39 | 0 16 |
| 22 | M | 7 59 31 | 29 14 55 | 20 19 | 10♄29 | 2 58 | 20 5 | 0 17 |
| 23 | Tu | 8 3 28 | 0♄12 12 | 20 7 | 22 20 | 2 1 | 19 37 | 0 17 |
| 24 | W | 8 7 25 | 1 9 30 | 19 55 | 4♄8 | 0 58 | 18 18 | 0 18 |
| 25 | Th | 8 11 21 | 2 6 48 | 19 42 | 15 56 | 0 S 7 | 16 11 | 0 18 |
| 26 | F | 8 15 18 | 3 4 8 | 19 29 | 27 46 | 1 12 | 13 23 | 0 19 |
| 27 | S | 8 19 14 | 4 1 28 | 19 16 | 9♄41 | 2 15 | 10 1 | 0 20 |
| 28 | S | 8 23 11 | 4 58 49 | 19 2 | 21 43 | 3 12 | 6 13 | 0 21 |
| 29 | M | 8 27 7 | 5 56 12 | 18 48 | 3♄56 | 4 1 | 2 7 | 0 21 |
| 30 | Tu | 8 31 4 | 6 53 35 | 18 34 | 16 23 | 4 40 | 2 N 8 | 0 21 |
| 31 | W | 8 35 0 | 7 50 59 | 18 19 | 29 9 | 5 6 | 6 24 | 0 21 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 9 | 18 N 31 | 1 N 44 | 19 N 28 | 3 S 80 | 19 N 28 | 16 Ω 36 |
| 4 | 1 7 | 13 52 | 1 44 | 18 27 | 2 57 | 20 13 | 16 25 |
| 7 | 1 5 | 12 12 | 1 43 | 17 22 | 2 20 | 21 0 | 16 15 |
| 10 | 1 3 | 11 32 | 1 40 | 16 12 | 1 41 | 21 46 | 16 6 |
| 13 | 1 1 | 10 50 | 1 37 | 14 59 | 1 1 | 22 26 | 15 56 |
| 16 | 0 59 | 10 8 | 1 34 | 13 43 | (| | 15 47 |
| 19 | 0 57 | 9 25 | 1 30 | 12 24 | (| | 15 37 |
| 22 | 0 56 | 8 42 | 1 24 | 11 2 | (| | 15 28 |
| 25 | 0 54 | 7 58 | 1 18 | 9 37 |] | | 15 18 |
| 28 | 0 52 | 7 14 | 1 12 | 8 11 |] | | 15 9 |
| 31 | 0 50 | 6 29 | 1 5 | 6 43 |] | | 14 59 |

| D
M | ☿ | | ♈ | | ♉ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|----------|-----------|----------|--------|---------|-------|--------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 20 r 7 | 16 w 53 | 27 Ω 14 | 9 Ω 54 | 18 Π 15 | | | | | | | | |
| 2 | 20 10 17 | 1 27 49 | 11 6 19 | 2 | | | ☐ | | | | | Δ | * |
| 3 | 20 13 17 | 10 28 25 | 12 18 19 | 54 | h * ♀ | | | ☐ | ♂ | | | Δ | * |
| 4 | 20 16 17 | 18 29 1 | 13 30 20 | 50 | | | | ♂ | | | | Δ | |
| 5 | 20 19 17 | 27 29 37 | 14 41 21 | 51 | | | * | | | | Δ | ☐ | |
| 6 | 20 22 17 | 36 0 w 13 | 15 53 22 | 55 | h Δ ♂ | | | | | | | ☐ | |
| 7 | 20 25 17 | 45 0 50 | 17 5 24 | 4 | | | | | | | | | ♂ |
| 8 | 20 28 17 | 53 1 27 | 18 17 25 | 18 | | | | ♂ | * | | * | | ♂ |
| 9 | 20 30 18 | 2 2 3 | 19 28 26 | 36 | | | | | | | | | |
| 10 | 20 32 18 | 11 2 40 | 20 40 27 | 57 | ☉ * ♀ | | | ☐ | | | | | |
| 11 | 20 34 18 | 20 3 16 | 21 51 29 | 24 | h * ♀ | | | | Δ | Δ | | ♂ | * |
| 12 | 20 36 18 | 29 3 52 | 23 8 0 | 54 | | | | | Δ | | ♂ | | * |
| 13 | 20 38 18 | 39 4 28 | 24 14 2 | 26 | ☉ ☐ h * | | | | | | ♂ | | ☐ |
| 14 | 20 40 18 | 48 5 4 | 25 26 4 | 6 | | | | | | | | | |
| 15 | 20 42 18 | 58 5 41 | 26 37 5 | 47 | ♂ * ♀ | | | | | | | | |
| 16 | 20 44 19 | 7 6 18 | 27 48 7 | 31 | | | | ☐ | ♂ | ♂ | | * | * |
| 17 | 20 46 19 | 17 6 56 | 28 59 9 | 18 | | | | | | | | * | Δ |
| 18 | 20 48 19 | 27 7 32 | 0 w 10 | 11 | h Δ ♀ | | | Δ | | | * | | |
| 19 | 20 49 19 | 37 8 8 | 1 21 13 | 4 | | | | | | | | ☐ | ☐ |
| 20 | 20 51 19 | 46 8 45 | 2 33 15 | 2 | | | | | | Δ | ☐ | | |
| 21 | 20 52 19 | 56 9 21 | 3 44 17 | 0 | | | | | Δ | | | | Δ |
| 22 | 20 53 20 | 7 9 58 | 4 55 19 | 1 | | | | | | | | Δ | |
| 23 | 20 55 20 | 17 10 35 | 6 5 21 | 4 | ☉ ☐ h | | | | | ☐ | Δ | | ♂ |
| 24 | 20 56 20 | 27 11 12 | 7 16 23 | 8 | | | | ♂ | ☐ | | * | | |
| 25 | 20 57 20 | 38 11 49 | 8 26 25 | 18 | | | | | | * | | | |
| 26 | 20 57 20 | 49 12 27 | 9 37 27 | 19 | ♂ ∠ ♀ | | | * | | | | ♂ | ♂ |
| 27 | 20 58 21 | 0 13 4 | 10 48 29 | 25 | h ☐ ♀ | | | | | | | ♂ | ♂ |
| 28 | 20 58 21 | 10 13 41 | 11 59 1 | 31 | | | | | | | ♂ | | |
| 29 | 20 59 21 | 20 14 18 | 13 9 3 | 38 | | | | Δ | | | | | Δ |
| 30 | 20 59 21 | 31 14 56 | 14 19 5 | 44 | ☉ ∠ ♀ | | | | | ♂ | | | |
| 31 | 31 0 21 | 42 15 38 | 15 29 7 | 49 | ☉ ☐ ♀ | | | ☐ | ♂ | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 8 34 | 11 N 5 | 2 8 34 | 5 N 49 | 1 N 9 | 4 N 17 |
| 4 | 15 | 47 | 0 34 | 11 5 | 2 35 | 5 48 | 1 9 | 4 3 |
| 7 | 15 | 48 | 0 34 | 11 5 | 2 36 | 5 47 | 1 8 | 3 49 |
| 10 | 15 | 48 | 0 34 | 11 5 | 2 37 | 5 46 | 1 8 | 3 36 |
| 13 | 15 | 49 | 0 34 | 11 4 | 2 38 | 5 44 | 1 7 | 3 21 |
| 16 | 15 | 49 | 0 34 | 11 4 | 2 38 | 5 42 | 1 7 | 3 7 |
| 19 | 15 | 50 | 0 34 | 11 3 | 2 39 | 5 39 | 1 7 | 2 53 |
| 22 | 15 | 50 | 0 35 | 11 2 | 2 40 | 5 36 | 1 7 | 2 38 |
| 25 | 15 | 51 | 0 35 | 11 1 | 2 41 | 5 33 | 1 7 | 2 23 |
| 28 | 15 | 52 | 0 35 | 11 0 | 2 42 | 5 30 | 1 7 | 2 8 |
| 31 | 15 | 52 | 0 35 | 10 59 | 2 43 | 5 26 | 1 6 | 1 53 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Th | 8 38 57 | 8 2 48 25 | 18 N 4 | 12 8 15 | 5 S 18 | 10 N 29 | 0 8 20 |
| 2 | F | 8 42 54 | 9 45 52 | 17 49 | 25 45 | 5 12 14 | 9 | 0 20 |
| 3 | S | 8 46 50 | 10 43 20 | 17 34 | 9 41 | 4 48 17 | 10 | 0 20 |
| 4 | S | 8 50 47 | 11 40 50 | 17 18 | 24 2 | 4 6 19 | 13 | 0 21 |
| 5 | M | 8 54 43 | 12 38 20 | 17 2 | 8 45 | 3 7 20 | 4 | 0 21 |
| 6 | Tu | 8 58 40 | 13 35 52 | 16 45 | 23 45 | 1 54 19 | 30 | 0 21 |
| 7 | W | 9 2 36 | 14 33 24 | 16 29 | 8 54 | 0 32 17 | 32 | 0 21 |
| 8 | Th | 9 6 33 | 15 31 0 | 16 12 | 24 3 | 0 N 52 | 14 20 | 0 21 |
| 9 | F | 9 10 29 | 16 28 35 | 15 55 | 9 3 | 2 11 10 | 13 | 0 21 |
| 10 | S | 9 14 26 | 17 26 11 | 15 37 | 23 45 | 3 21 5 | 33 | 0 21 |
| 11 | S | 9 18 23 | 18 23 49 | 15 20 | 8 5 | 4 15 0 | 42 | 0 21 |
| 12 | M | 9 22 19 | 19 21 27 | 15 2 | 21 57 | 4 53 4 | S 1 | 0 20 |
| 13 | Tu | 9 26 16 | 20 19 6 | 14 43 | 5 25 | 5 14 8 | 24 | 0 20 |
| 14 | W | 9 30 12 | 21 16 47 | 14 25 | 18 26 | 5 17 12 | 15 | 0 20 |
| 15 | Th | 9 34 9 | 22 14 28 | 14 6 | 1 5 | 5 5 15 | 25 | 0 20 |
| 16 | F | 9 38 5 | 23 12 11 | 13 48 | 13 26 | 4 39 17 | 49 | 0 19 |
| 17 | S | 9 42 2 | 24 9 54 | 13 29 | 25 33 | 4 1 19 | 22 | 0 19 |
| 18 | S | 9 45 58 | 25 7 39 | 13 9 | 7 29 | 3 12 20 | 3 | 0 18 |
| 19 | M | 9 49 55 | 26 5 25 | 12 50 | 19 20 | 2 16 19 | 49 | 0 17 |
| 20 | Tu | 9 53 52 | 27 3 12 | 12 30 | 1 8 | 1 15 18 | 42 | 0 17 |
| 21 | W | 9 57 48 | 28 1 0 | 12 10 | 12 56 | 0 10 16 | 47 | 0 16 |
| 22 | Th | 10 1 45 | 28 58 50 | 11 50 | 24 47 | 0 S 55 | 14 8 | 0 15 |
| 23 | F | 10 5 41 | 29 56 41 | 11 30 | 6 44 | 1 59 10 | 53 | 0 15 |
| 24 | S | 10 9 38 | 0 54 33 | 11 10 | 18 48 | 2 58 7 | 9 | 0 14 |
| 25 | S | 10 13 34 | 1 52 28 | 10 49 | 1 1 | 3 49 3 | 6 | 0 13 |
| 26 | M | 10 17 31 | 2 50 24 | 10 28 | 13 25 | 4 30 1 | N 9 | 0 13 |
| 27 | Tu | 10 21 27 | 3 48 22 | 10 7 | 26 3 | 4 59 5 | 25 | 0 11 |
| 28 | W | 10 25 24 | 4 46 21 | 9 46 | 8 54 | 5 14 9 | 31 | 0 10 |
| 29 | Th | 10 29 21 | 5 44 23 | 9 25 | 22 3 | 5 13 13 | 15 | 0 9 |
| 30 | F | 10 33 17 | 6 42 26 | 9 3 | 5 30 | 4 55 16 | 24 | 0 8 |
| 31 | S | 10 37 14 | 7 40 32 | 8 42 | 19 17 | 4 19 18 | 43 | 0 6 |

1850.]

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 50 | 6 N 14 | 1 N 2 | 6 N 13 | 1 N 44 | 19 N 27 | 14 Q 56 |
| 4 | 0 48 | 5 29 | 0 53 | 4 43 | 1 46 | 17 45 | 14 47 |
| 7 | 0 47 | 4 43 | 0 44 | 3 12 | 1 43 | 15 50 | 14 37 |
| 10 | 0 45 | 3 56 | 0 34 | 1 40 | 1 34 | 13 47 | 14 28 |
| 13 | 0 44 | 3 10 | 0 24 | 0 7 | 1 21 | 11 38 | 14 18 |
| 16 | 0 42 | 2 23 | 0 13 | 1 S 25 | 1 5 | 9 26 | 14 9 |
| 19 | 0 40 | 1 36 | 0 2 | 2 58 | 0 45 | 7 13 | 13 59 |
| 22 | 0 38 | 0 48 | 0 S 10 | 4 30 | 0 34 | 5 1 | 13 50 |
| 25 | 0 36 | 0 1 | 0 23 | 6 1 | 0 1 | 2 50 | 13 40 |
| 28 | 0 34 | 0 S 47 | 0 36 | 7 31 | 0 S 24 | 0 43 | 13 31 |
| 31 | 0 32 | 1 35 | 0 49 | 9 1 | 0 49 | 1 S 22 | 13 21 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 21 r | 0 21 | 53 16 | 10 13 | 40 9 | 54 9 | ♀ P ♂ | ☐ | | | Δ | Δ | ☐ |
| 2 | 21 R | 0 22 | 4 16 | 47 17 | 50 11 | 58 9 | ♀ P h | ☐ | | Δ | | | ☐ |
| 3 | 21 | 0 22 | 16 17 | 25 19 | 0 14 | 0 | | * | | | | | * |
| 4 | 21 | 0 22 | 26 18 | 3 20 | 10 16 | 1 | | | * | * | ☐ | ☐ | ☐ |
| 5 | 20 | 59 22 | 37 18 | 40 21 | 20 18 | 1 | ☉ P ♀ | | | | | | |
| 6 | 20 | 59 22 | 40 19 | 17 22 | 30 19 | 59 | ♂ ♂ ♀ | ☐ | ☐ | * | * | * | |
| 7 | 20 | 59 23 | 0 19 | 55 23 | 39 21 | 55 | h Δ ♀ | ♂ | | | | | ♂ |
| 8 | 20 | 58 23 | 11 20 | 33 24 | 49 23 | 50 | | Δ | Δ | | | | |
| 9 | 20 | 58 23 | 23 21 | 11 25 | 59 25 | 45 | | | | ♂ | ♂ | ♂ | |
| 10 | 20 | 57 23 | 34 21 | 43 27 | 9 27 | 38 | | | | ♂ | ♂ | ♂ | |
| 11 | 20 | 56 23 | 46 22 | 26 28 | 18 29 | 29 | h Δ ♀ | | | | | | |
| 12 | 20 | 55 23 | 58 23 | 4 29 | 28 1 | 19 | | * | ♂ | ♂ | | | * |
| 13 | 20 | 54 24 | 10 23 | 43 0 | 38 3 | 6 | | ♂ | ♂ | | | | * |
| 14 | 20 | 53 24 | 21 24 | 21 1 | 47 4 | 54 | ♂ ♂ ♂ | ☐ | | * | * | * | |
| 15 | 20 | 52 24 | 33 24 | 59 2 | 56 6 | 39 | | | | | * | * | |
| 16 | 20 | 51 24 | 45 25 | 37 4 | 4 8 | 23 | | | | | | | ☐ |
| 17 | 20 | 49 24 | 57 26 | 14 5 | 13 10 | 5 | ♀ P ♂ | Δ | Δ | Δ | ☐ | ☐ | |
| 18 | 20 | 47 25 | 9 26 | 52 6 | 22 11 | 46 | | Δ | | | | ☐ | Δ |
| 19 | 20 | 45 25 | 21 27 | 30 7 | 31 13 | 26 | | | ☐ | Δ | Δ | | |
| 20 | 20 | 44 25 | 33 28 | 9 8 | 40 15 | 4 | h ☐ ♀ | ☐ | | Δ | Δ | | |
| 21 | 20 | 42 25 | 45 28 | 43 9 | 48 16 | 41 | | ♂ | * | * | | Δ | |
| 22 | 20 | 40 25 | 57 29 | 26 10 | 57 18 | 16 | | ♂ | * | * | | | |
| 23 | 20 | 38 26 | 9 0 | 5 12 | 5 19 | 50 | | | | | | | |
| 24 | 20 | 36 26 | 22 0 | 43 13 | 14 21 | 23 | ☉ Δ h | | | ♂ | ♂ | | ♂ |
| 25 | 20 | 34 26 | 34 1 | 21 14 | 22 23 | 54 | | | | ♂ | ♂ | | |
| 26 | 20 | 32 26 | 47 1 | 59 15 | 30 24 | 24 | | | ♂ | ♂ | | ♂ | |
| 27 | 20 | 30 26 | 59 2 | 38 16 | 37 25 | 58 | | | ♂ | ♂ | | | |
| 28 | 20 | 28 27 | 12 3 | 17 17 | 45 27 | 19 | ♂ ♂ ♀ | Δ | | | | | |
| 29 | 20 | 25 27 | 24 3 | 56 18 | 53 28 | 45 | ☉ ☐ h | | | Δ | | | Δ |
| 30 | 20 | 23 27 | 36 4 | 35 20 | 1 0 | 10 | ♀ ♂ h | ☐ | | | | | |
| 31 | 20 | 19 27 | 49 5 | 14 21 | 8 1 | 32 | | | * | | Δ | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 35 | 10 N 58 | 2 S 43 | 5 N 25 | 1 N 6 | 1 N 48 |
| 4 | 15 | 54 | 0 35 | 10 57 | 2 43 | 5 21 | 1 6 | 1 33 |
| 7 | 15 | 54 | 0 35 | 10 55 | 2 44 | 5 17 | 1 6 | 1 18 |
| 10 | 15 | 55 | 0 35 | 10 54 | 2 44 | 5 13 | 1 6 | 1 3 |
| 13 | 15 | 56 | 0 35 | 10 52 | 2 45 | 5 8 | 1 6 | 0 47 |
| 16 | 15 | 56 | 0 35 | 10 50 | 2 45 | 5 3 | 1 6 | 0 32 |
| 19 | 15 | 57 | 0 35 | 10 48 | 2 45 | 4 58 | 1 6 | 0 16 |
| 22 | 15 | 58 | 0 35 | 10 46 | 2 46 | 4 53 | 1 6 | 0 1 |
| 25 | 15 | 59 | 0 35 | 10 44 | 2 46 | 4 48 | 1 6 | 0 S 15 |
| 28 | 16 | 0 | 0 35 | 10 41 | 2 46 | 4 42 | 1 6 | 0 30 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin | | ♂
Long. | | ♂
Lat. | | ♂
Declin | | ♂
Long. | |
|--------|--------|-------------------|----|----|------------|-------|-------------|------|------------|-------|-----------|------|-------------|------|------------|-----|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 10 | 41 | 10 | 8 | 38 39 | 8 | N 20 | 3 | 52 23 | 3 | S 28 | 19 | N 57 | 0 | 8 4 |
| 2 | M | 10 | 45 | 7 | 9 | 36 48 | 7 | 58 | 17 | 49 | 2 | 22 | 19 | 55 | 0 | 8 3 |
| 3 | Tu | 10 | 49 | 3 | 10 | 35 0 | 7 | 36 | 2 | 52 31 | 1 | 6 | 18 | 33 | 0 | 1 |
| 4 | W | 10 | 53 | 0 | 11 | 33 13 | 7 | 14 | 17 | 24 | 0 | N 16 | 15 | 53 | 0 | 0 |
| 5 | Th | 10 | 56 | 56 | 12 | 31 28 | 6 | 52 | 2 | 52 22 | 1 | 36 | 12 | 8 | 29 | 59 |
| 6 | F | 11 | 0 | 53 | 13 | 29 45 | 6 | 30 | 17 | 16 | 2 | 50 | 7 | 39 | 29 | 57 |
| 7 | S | 11 | 4 | 49 | 14 | 28 4 | 6 | 7 | 1 | 58 | 3 | 51 | 2 | 45 | 29 | 56 |
| 8 | S | 11 | 8 | 46 | 15 | 26 24 | 5 | 45 | 16 | 21 | 4 | 36 | 2 | S 11 | 29 | 54 |
| 9 | M | 11 | 12 | 43 | 16 | 24 46 | 5 | 22 | 0 | 52 20 | 5 | 4 | 6 | 51 | 29 | 53 |
| 10 | Tu | 11 | 16 | 39 | 17 | 23 10 | 4 | 59 | 13 | 52 | 5 | 13 | 11 | 2 | 29 | 51 |
| 11 | W | 11 | 20 | 36 | 18 | 21 36 | 4 | 36 | 26 | 58 | 5 | 5 | 14 | 33 | 29 | 50 |
| 12 | Th | 11 | 24 | 32 | 19 | 20 3 | 4 | 14 | 9 | 40 | 4 | 42 | 17 | 16 | 29 | 48 |
| 13 | F | 11 | 28 | 29 | 20 | 18 32 | 3 | 51 | 22 | 1 | 4 | 7 | 19 | 6 | 29 | 47 |
| 14 | S | 11 | 32 | 25 | 21 | 17 2 | 3 | 28 | 4 | 57 7 | 3 | 21 | 20 | 2 | 29 | 45 |
| 15 | S | 11 | 36 | 22 | 22 | 15 34 | 3 | 4 | 16 | 1 | 2 | 28 | 20 | 3 | 29 | 44 |
| 16 | M | 11 | 40 | 18 | 23 | 14 7 | 2 | 41 | 27 | 50 | 1 | 28 | 19 | 10 | 29 | 42 |
| 17 | Tu | 11 | 44 | 15 | 24 | 12 42 | 2 | 18 | 9 | 53 37 | 0 | 25 | 17 | 27 | 29 | 40 |
| 18 | W | 11 | 48 | 12 | 25 | 11 19 | 1 | 55 | 21 | 28 | 0 | S 39 | 14 | 59 | 29 | 38 |
| 19 | Th | 11 | 52 | 8 | 26 | 9 58 | 1 | 32 | 3 | 52 25 | 1 | 42 | 11 | 51 | 29 | 36 |
| 20 | F | 11 | 56 | 5 | 27 | 8 39 | 1 | 8 | 15 | 31 | 2 | 42 | 8 | 12 | 29 | 34 |
| 21 | S | 12 | 0 | 1 | 28 | 7 21 | 0 | 45 | 27 | 48 | 3 | 34 | 4 | 9 | 29 | 32 |
| 22 | S | 12 | 3 | 58 | 29 | 6 6 | 0 | 21 | 10 | 51 18 | 4 | 17 | 0 | N 8 | 29 | 30 |
| 23 | M | 12 | 7 | 54 | 0 | 52 4 | 0 | S 2 | 23 | 0 | 4 | 48 | 4 | 29 | 29 | 28 |
| 24 | Tu | 12 | 11 | 51 | 1 | 3 41 | 0 | 25 | 5 | 58 55 | 5 | 5 | 8 | 42 | 29 | 26 |
| 25 | W | 12 | 15 | 47 | 2 | 2 31 | 0 | 49 | 19 | 2 | 5 | 6 | 12 | 35 | 29 | 24 |
| 26 | Th | 12 | 19 | 44 | 3 | 1 25 | 1 | 12 | 2 | 52 23 | 4 | 51 | 15 | 54 | 29 | 22 |
| 27 | F | 12 | 23 | 41 | 4 | 0 20 | 1 | 36 | 15 | 55 | 4 | 20 | 18 | 24 | 29 | 20 |
| 28 | S | 12 | 27 | 37 | 4 | 59 18 | 1 | 59 | 29 | 40 | 3 | 33 | 19 | 55 | 29 | 18 |
| 29 | S | 12 | 31 | 34 | 5 | 58 18 | 2 | 22 | 13 | 52 38 | 2 | 33 | 20 | 13 | 29 | 16 |
| 30 | M | 12 | 35 | 30 | 6 | 57 20 | 2 | 46 | 27 | 48 | 1 | 23 | 19 | 16 | 29 | 14 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 82 | 1 S 51 | 0 S 53 | 9 S 30 | 0 S 58 | 2 S 2 | 13 Q 18 |
| 4 | 0 30 | 2 39 | 1 7 | 10 57 | 1 23 | 3 59 | 13 9 |
| 7 | 0 28 | 3 27 | 1 21 | 12 22 | 1 50 | 5 50 | 12 59 |
| 10 | 0 27 | 4 14 | 1 36 | 13 45 | 2 15 | 7 32 | 12 50 |
| 13 | 0 25 | 5 2 | 1 50 | 15 6 | 2 39 | 9 5 | 12 40 |
| 16 | 0 23 | 5 50 | 2 4 | 16 23 | 3 2 | 10 27 | 12 31 |
| 19 | 0 21 | 6 37 | 2 17 | 17 38 | 3 21 | 11 33 | 12 21 |
| 22 | 0 20 | 7 24 | 2 31 | 18 49 | 3 35 | 12 20 | 12 12 |
| 25 | 0 18 | 8 11 | 2 45 | 19 57 | 3 43 | 12 43 | 12 2 |
| 28 | 0 16 | 8 58 | 2 58 | 21 1 | 3 42 | 12 36 | 11 53 |

| D
M | h | | M | | J | | S | | V | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|----------------|---|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☉ | ☽ | h | M | J | S | V |
| 1 | 20 | r | 16 | 28 | 1 | 5 | 52 | 22 | 15 | 2 | 53 | | | | | | | |
| 2 | 20 | R | 18 | 28 | 13 | 6 | 31 | 23 | 22 | 4 | 13 | | | ☐ | | * | | ☐ |
| 3 | 20 | | 10 | 28 | 26 | 7 | 10 | 24 | 29 | 5 | 32 | | | | | * | * | * |
| 4 | 20 | | 6 | 28 | 39 | 7 | 49 | 25 | 36 | 6 | 49 | | | Δ | | | | |
| 5 | 20 | | 3 | 28 | 52 | 8 | 29 | 26 | 43 | 8 | 4 | | | | | | * | |
| 6 | 20 | | 0 | 29 | 4 | 9 | 8 | 27 | 50 | 9 | 17 | ☿ ☽ ♄ | ♂ | | | | | |
| 7 | 19 | 57 | 29 | 17 | 9 | 47 | 28 | 56 | 10 | 28 | 38 | ☉ ☽ ♄ | | | ♂ | ♂ | | |
| 8 | 19 | 64 | 29 | 29 | 10 | 26 | 0 | 21 | 11 | 38 | 38 | ☉ ☽ ♄ | | ♂ | ♂ | ♂ | ♂ | |
| 9 | 19 | 50 | 29 | 42 | 11 | 5 | 1 | 8 | 12 | 46 | 46 | | | ♂ | | ♂ | | |
| 10 | 19 | 46 | 29 | 55 | 11 | 44 | 2 | 14 | 13 | 51 | 51 | | * | | | | | |
| 11 | 19 | 43 | 0 | 8 | 12 | 23 | 3 | 20 | 14 | 55 | 55 | ☉ P ♄ | | | | * | | |
| 12 | 19 | 39 | 0 | 21 | 13 | 3 | 4 | 26 | 15 | 56 | 56 | | | | | * | * | |
| 13 | 19 | 35 | 0 | 33 | 13 | 43 | 5 | 31 | 16 | 53 | 53 | h P ♄ | ☐ | Δ | Δ | | * | |
| 14 | 19 | 31 | 0 | 46 | 14 | 23 | 6 | 37 | 17 | 49 | 49 | | Δ | Δ | ☐ | | * | |
| 15 | 19 | 27 | 0 | 59 | 15 | 3 | 7 | 42 | 18 | 42 | 42 | | Δ | | ☐ | ☐ | ☐ | |
| 16 | 19 | 23 | 1 | 12 | 16 | 11 | 8 | 47 | 19 | 32 | 32 | h ♄ ♄ | | ☐ | | Δ | | |
| 17 | 19 | 19 | 1 | 26 | 16 | 22 | 9 | 51 | 20 | 18 | 18 | | | | | | ☐ | |
| 18 | 19 | 15 | 1 | 48 | 17 | 1 | 10 | 56 | 21 | 1 | 1 | | | | * | Δ | Δ | |
| 19 | 19 | 11 | 1 | 51 | 17 | 41 | 12 | 0 | 21 | 39 | 39 | | | ☐ | | | | |
| 20 | 19 | 7 | 2 | 4 | 18 | 21 | 13 | 4 | 22 | 14 | 14 | | | | | | Δ | |
| 21 | 19 | 3 | 2 | 17 | 19 | 1 | 14 | 8 | 22 | 44 | 44 | h ♄ ♄ | ♂ | | | ♂ | | |
| 22 | 18 | 58 | 2 | 30 | 19 | 11 | 15 | 12 | 23 | 9 | 9 | | | | | ♂ | ♂ | |
| 23 | 18 | 54 | 2 | 43 | 20 | 20 | 16 | 16 | 23 | 29 | 29 | ☉ P ♄ | | ♂ | ♂ | | ♂ | |
| 24 | 18 | 50 | 2 | 56 | 21 | 0 | 17 | 18 | 23 | 43 | 43 | | | | | | | |
| 25 | 18 | 45 | 3 | 10 | 21 | 41 | 18 | 21 | 23 | 51 | 51 | ♄ ☽ ♄ | | | | | ♂ | |
| 26 | 18 | 41 | 3 | 22 | 22 | 11 | 19 | 23 | 23 | 53 | 53 | ☉ ☽ ♄ | Δ | | | Δ | | |
| 27 | 18 | 36 | 3 | 35 | 23 | 1 | 20 | 25 | 23 | 47 | 47 | | | | * | | | |
| 28 | 18 | 32 | 3 | 48 | 23 | 41 | 21 | 27 | 23 | 35 | 35 | ♄ ☽ ♄ | ☐ | * | | ☐ | Δ | |
| 29 | 18 | 27 | 4 | 0 | 24 | 22 | 22 | 29 | 23 | 15 | 15 | | | | ☐ | | | |
| 30 | 18 | 23 | 4 | 13 | 25 | 2 | 23 | 31 | 23 | 46 | 46 | | | ☐ | | * | ☐ | |

OCTOBER XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|---|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 8 35 | 10 N 39 | 2 S 46 | 4 N 37 | 1 N 7 | 0 S 45 |
| 4 | 16 | 1 | 0 35 | 10 37 | 2 46 | 4 31 | 1 7 | 1 1 |
| 7 | 16 | 2 | 0 35 | 10 34 | 2 47 | 4 26 | 1 7 | 1 16 |
| 10 | 16 | 3 | 0 35 | 10 32 | 2 47 | 4 20 | 1 7 | 1 31 |
| 13 | 16 | 4 | 0 35 | 10 29 | 2 47 | 4 15 | 1 7 | 1 46 |
| 16 | 16 | 5 | 0 35 | 10 27 | 2 47 | 4 10 | 1 7 | 2 1 |
| 19 | 16 | 5 | 0 35 | 10 24 | 2 47 | 4 4 | 1 7 | 2 16 |
| 22 | 16 | 6 | 0 35 | 10 21 | 2 47 | 3 59 | 1 7 | 2 31 |
| 25 | 16 | 7 | 0 35 | 10 19 | 2 47 | 3 54 | 1 7 | 2 46 |
| 28 | 16 | 8 | 0 35 | 10 16 | 2 46 | 3 49 | 1 7 | 3 0 |
| 31 | 16 | 9 | 0 35 | 10 14 | 2 46 | 3 45 | 1 8 | 3 14 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 12 39 27 | 7 56 25 | 3 S 9 | 12 Ω 9 | 0 S 6 | 17 N 4 | 29 r 12 |
| 2 | W | 12 43 23 | 8 55 31 | 3 32 | 26 39 | 1 N 11 | 13 45 | 29 B 10 |
| 3 | Th | 12 47 20 | 9 54 40 | 3 56 | 11 w 14 | 2 24 | 9 35 | 29 8 |
| 4 | F | 12 51 16 | 10 53 52 | 4 19 | 25 48 | 3 27 | 4 50 | 29 5 |
| 5 | S | 12 55 13 | 11 53 5 | 4 42 | 10 15 | 4 17 | 0 S 8 | 29 3 |
| 6 | S | 12 59 9 | 12 52 21 | 5 5 | 24 29 | 4 49 | 5 0 | 29 0 |
| 7 | M | 13 3 6 | 13 51 39 | 5 28 | 8 m 22 | 5 4 | 9 31 | 28 56 |
| 8 | Tu | 13 7 3 | 14 50 58 | 5 51 | 21 53 | 5 0 | 13 25 | 28 55 |
| 9 | W | 13 10 59 | 15 50 20 | 6 14 | 5 f 0 | 4 41 | 16 32 | 28 53 |
| 10 | Th | 13 14 56 | 16 49 43 | 6 37 | 17 43 | 4 9 | 18 46 | 28 51 |
| 11 | F | 13 18 52 | 17 49 8 | 7 0 | 0 w 5 | 3 25 | 20 2 | 28 48 |
| 12 | S | 13 22 49 | 18 48 35 | 7 22 | 12 12 | 2 33 | 20 21 | 28 46 |
| 13 | S | 13 26 45 | 19 48 4 | 7 45 | 24 6 | 1 35 | 19 45 | 28 43 |
| 14 | M | 13 30 42 | 20 47 34 | 8 7 | 5 w 55 | 0 34 | 18 16 | 28 41 |
| 15 | Tu | 13 34 38 | 21 47 6 | 8 30 | 17 43 | 0 S 29 | 16 0 | 28 38 |
| 16 | W | 13 38 35 | 22 46 40 | 8 52 | 29 36 | 1 31 | 13 3 | 28 36 |
| 17 | Th | 13 42 32 | 23 46 16 | 9 14 | 11 x 38 | 2 30 | 9 31 | 28 33 |
| 18 | F | 13 46 28 | 24 45 53 | 9 36 | 23 53 | 3 22 | 5 32 | 28 31 |
| 19 | S | 13 50 25 | 25 45 33 | 9 58 | 6 r 22 | 4 6 | 1 14 | 28 28 |
| 20 | S | 13 54 21 | 26 45 14 | 10 19 | 19 9 | 4 38 | 3 N 13 | 28 26 |
| 21 | M | 13 58 18 | 27 44 57 | 10 41 | 2 8 13 | 4 57 | 7 36 | 28 23 |
| 22 | Tu | 14 2 14 | 28 44 42 | 11 2 | 15 31 | 5 0 | 11 42 | 28 21 |
| 23 | W | 14 6 11 | 29 44 30 | 11 23 | 29 2 | 4 47 | 15 18 | 28 18 |
| 24 | Th | 14 10 7 | 0 m 44 19 | 11 44 | 12 Π 44 | 4 16 | 18 6 | 28 16 |
| 25 | F | 14 14 4 | 1 44 11 | 12 5 | 26 34 | 3 31 | 19 54 | 28 13 |
| 26 | S | 14 18 1 | 2 44 5 | 12 26 | 10 29 | 2 33 | 20 30 | 28 11 |
| 27 | S | 14 21 57 | 3 44 1 | 12 46 | 24 29 | 1 25 | 19 51 | 28 8 |
| 28 | M | 14 25 54 | 4 43 59 | 13 7 | 8 Ω 33 | 0 11 | 17 57 | 28 6 |
| 29 | Tu | 14 29 50 | 5 43 59 | 13 27 | 22 40 | 1 N 3 | 14 57 | 28 3 |
| 30 | W | 14 33 47 | 6 44 2 | 13 46 | 6 w 50 | 2 13 | 11 5 | 28 1 |
| 31 | Th | 14 37 43 | 7 44 6 | 14 6 | 20 59 | 3 16 | 6 34 | 27 59 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|-----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 14 | 9 S 44 | 3 S 11 | 22 S 1 | N 11 W 11 | 11 S 52 | 11 Q 48 |
| 4 | 0 12 | 10 29 | 3 24 | 22 57 | 2 59 | 10 28 | 11 38 |
| 7 | 0 11 | 11 14 | 3 37 | 23 49 | 2 18 | 8 29 | 11 23 |
| 10 | 0 9 | 11 59 | 3 47 | 24 35 | 1 15 | 6 14 | 11 14 |
| 13 | 0 7 | 12 42 | 3 59 | 25 18 | 0 18 | 4 11 | 11 4 |
| 16 | 0 6 | 13 26 | 4 8 | 25 55 | 0 N 42 | 2 47 | 10 55 |
| 19 | 0 4 | 14 8 | 4 16 | 26 27 | 1 23 | 2 14 | 10 45 |
| 22 | 0 2 | 14 49 | 4 23 | 26 55 | 1 50 | 2 30 | 10 36 |
| 25 | 0 0 | 15 30 | 4 30 | 27 17 | 2 5 | 3 25 | 10 26 |
| 28 | 0 S 3 | 16 9 | 4 34 | 27 35 | 2 8 | 4 49 | 10 17 |
| 31 | 0 4 | 16 48 | 4 36 | 27 47 | 2 8 | 6 30 | 10 7 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|-------|-------|--------|---------|--------|-------|--------------------|----------------|-----|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 18 18 | 4 28 | 25 43 | 24 m 32 | 22 11 | 11 | | * | Δ | | | | |
| 2 | 18 13 | 4 41 | 26 23 | 25 33 | 21 28 | 13 | | | Δ | | * | □ | * |
| 3 | 18 9 | 4 54 | 27 3 | 26 33 | 20 38 | 18 | | | | | | | |
| 4 | 18 4 | 5 7 | 27 44 | 27 33 | 19 41 | 18 | | ♂ | | | | | |
| 5 | 18 0 | 5 20 | 28 25 | 28 33 | 18 38 | 18 | | | | ♂ | * | | |
| 6 | 17 55 | 5 32 | 29 5 | 29 32 | 17 30 | 17 | ♂ ♀ | | ♂ ♀ | | ♂ | | ♂ |
| 7 | 17 51 | 5 45 | 29 46 | 0 31 | 16 21 | 17 | | | | | | | |
| 8 | 17 46 | 5 58 | 0 m 26 | 1 30 | 15 10 | 17 | ☉ ♂ ♀ | | | | | | |
| 9 | 17 41 | 6 10 | 1 7 | 2 29 | 13 59 | 17 | | | | * | ♂ | | |
| 10 | 17 36 | 6 28 | 1 48 | 3 26 | 12 51 | 17 | | * | | Δ | | | * |
| 11 | 17 31 | 6 36 | 2 29 | 4 24 | 11 47 | 17 | ☉ ♀ h | | Δ | | * | | |
| 12 | 17 26 | 6 49 | 3 10 | 5 21 | 10 51 | 17 | | | | □ | □ | | □ |
| 13 | 17 21 | 7 1 | 3 51 | 6 17 | 10 2 | 17 | | □ | □ | | | | |
| 14 | 17 16 | 7 14 | 4 32 | 7 13 | 9 24 | 17 | h * ♀ | | | | Δ | □ | * Δ |
| 15 | 17 11 | 7 27 | 5 13 | 8 8 | 8 54 | 17 | | Δ | | * | | | |
| 16 | 17 6 | 7 40 | 5 55 | 8 8 | 37 8 | 17 | ♀ * ♀ | | * | | | | |
| 17 | 17 2 | 7 52 | 6 37 | 9 58 | 8 D 30 | 17 | | | | | Δ | □ | |
| 18 | 16 57 | 8 5 | 7 18 | 10 52 | 8 34 | 16 | | | | | | | |
| 19 | 16 53 | 8 18 | 7 59 | 11 45 | 8 49 | 16 | | | | ♂ | | Δ | ♂ |
| 20 | 16 48 | 8 30 | 8 40 | 12 38 | 9 15 | 16 | h □ ♀ | | | ♂ | | | |
| 21 | 16 44 | 8 43 | 9 22 | 13 30 | 9 50 | 16 | | ♂ | ♂ | | | | |
| 22 | 16 39 | 8 56 | 10 3 | 14 21 | 10 34 | 16 | ☉ ♀ h | | | | ♂ | | |
| 23 | 16 36 | 9 9 | 10 44 | 15 11 | 11 20 | 16 | | | | | | | |
| 24 | 16 30 | 9 21 | 11 26 | 16 1 | 12 25 | 16 | ☉ ♀ | | | * | Δ | ♂ | Δ |
| 25 | 16 26 | 9 34 | 12 8 | 16 50 | 13 30 | 16 | h Δ ♀ | Δ | * | | | | |
| 26 | 16 21 | 9 47 | 12 49 | 17 38 | 14 41 | 16 | | | | | □ | □ | □ |
| 27 | 16 17 | 9 59 | 13 31 | 18 25 | 15 56 | 16 | h ♀ ♀ | | | □ | | | |
| 28 | 16 12 | 10 12 | 14 18 | 19 12 | 17 16 | 16 | | □ | | | | | |
| 29 | 16 8 | 10 24 | 14 55 | 19 58 | 18 38 | 16 | | | Δ | Δ | | Δ | * |
| 30 | 16 3 | 10 37 | 15 37 | 20 43 | 20 4 | 16 | | * | | | | | |
| 31 | 16 59 | 10 49 | 16 19 | 21 27 | 21 38 | 16 | | | | | | | □ |

NOVEMBER XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 08 35 | 10 N13 | 28 46 | 3 N43 | 1 N 8 | 38 19 |
| 4 | 16 | 9 | 0 35 | 10 10 | 2 46 | 3 39 | 1 8 | 3 33 |
| 7 | 16 | 10 | 0 35 | 10 8 | 2 45 | 3 35 | 1 8 | 3 47 |
| 10 | 16 | 11 | 0 35 | 10 5 | 2 45 | 3 31 | 1 8 | 4 0 |
| 13 | 16 | 12 | 0 35 | 10 3 | 2 44 | 3 27 | 1 9 | 4 14 |
| 16 | 16 | 12 | 0 34 | 10 1 | 2 44 | 3 24 | 1 9 | 4 27 |
| 19 | 16 | 13 | 0 34 | 9 59 | 2 43 | 3 21 | 1 10 | 4 39 |
| 22 | 16 | 13 | 0 34 | 9 56 | 2 42 | 3 19 | 1 10 | 4 52 |
| 25 | 16 | 14 | 0 34 | 9 54 | 2 41 | 3 17 | 1 11 | 5 4 |
| 28 | 16 | 14 | 0 34 | 9 53 | 2 40 | 3 15 | 1 11 | 5 16 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----------------------|-------------------------|------------------|-----------|--------------|--------------------|
| | | H. M. S. | ° / ' | ° / ' | ° / ' | ° / ' | ° / ' | ° / ' |
| 1 | F | 14 41 40 | 8 ^m 44 13 | 14 S 25 | 5 ^h 7 | 4 N 6 | 1 N 43 | 27 ^r 56 |
| 2 | S | 14 45 36 | 9 44 22 | 14 45 19 | 9 | 4 40 | 38 10 | 27 ^r 53 |
| 3 | S | 14 49 33 | 10 44 33 | 15 3 3 ^m 0 | 4 58 | 7 51 | 27 51 | |
| 4 | M | 14 53 30 | 11 44 45 | 15 22 16 | 37 | 4 58 | 12 3 | 27 49 |
| 5 | Tu | 14 57 26 | 12 45 0 | 15 41 29 | 56 | 4 42 | 15 33 | 27 46 |
| 6 | W | 15 1 23 | 13 45 16 | 15 59 12 | 55 | 4 12 | 18 12 | 27 44 |
| 7 | Th | 15 5 19 | 14 45 34 | 16 17 25 | 35 | 3 29 | 19 54 | 27 42 |
| 8 | F | 15 9 16 | 15 45 53 | 16 34 7 ^w 55 | 2 | 38 20 | 36 27 | 39 |
| 9 | S | 15 13 12 | 16 46 14 | 16 52 20 | 1 | 1 40 | 20 19 | 27 37 |
| 10 | S | 15 17 9 | 17 46 36 | 17 9 1 ^m 55 | 0 | 38 19 | 7 27 | 35 |
| 11 | M | 15 21 5 | 18 47 0 | 17 25 13 | 44 | 08 24 | 17 6 | 27 33 |
| 12 | Tu | 15 25 2 | 19 47 25 | 17 42 25 | 32 | 1 26 | 14 22 | 27 31 |
| 13 | W | 15 28 59 | 20 47 52 | 17 58 7 ^x 25 | 2 | 24 11 | 1 27 | 29 |
| 14 | Th | 15 32 55 | 21 48 19 | 18 14 19 | 28 | 3 17 | 7 11 | 27 26 |
| 15 | F | 15 36 52 | 22 48 48 | 18 29 1 ^r 47 | 4 | 1 2 59 | 27 24 | |
| 16 | S | 15 40 48 | 23 49 19 | 18 45 14 | 25 | 4 35 | 1 N 27 | 27 23 |
| 17 | S | 15 44 44 | 24 49 50 | 18 59 27 | 24 | 4 56 | 5 57 | 27 20 |
| 18 | M | 15 48 41 | 25 50 24 | 19 14 10 | 44 | 5 2 | 10 16 | 27 18 |
| 19 | Tu | 15 52 38 | 26 50 58 | 19 28 24 | 24 | 4 50 | 14 11 | 27 16 |
| 20 | W | 15 56 34 | 27 51 34 | 19 42 8 | 21 | 4 21 | 17 25 | 27 14 |
| 21 | Th | 16 0 31 | 28 52 12 | 19 55 22 | 30 | 3 36 | 19 39 | 27 12 |
| 22 | F | 16 4 28 | 29 52 51 | 20 8 6 ^g 46 | 2 | 37 20 | 40 27 | 10 |
| 23 | S | 16 8 24 | 0 ^f 53 31 | 20 21 21 | 4 | 1 28 | 20 22 | 27 8 |
| 24 | S | 16 12 21 | 1 54 14 | 20 33 5 | 20 | 0 13 | 18 44 | 27 6 |
| 25 | M | 16 16 17 | 2 54 57 | 20 45 19 | 32 | 1 N 2 | 15 58 | 27 4 |
| 26 | Tu | 16 20 14 | 3 55 43 | 20 57 3 ^m 38 | 2 | 13 12 | 15 27 | 2 |
| 27 | W | 16 24 10 | 4 56 30 | 21 8 17 | 38 | 3 16 | 7 54 | 27 0 |
| 28 | Th | 16 28 7 | 5 57 18 | 21 19 1 ^h 30 | 4 | 6 3 10 | 26 59 | |
| 29 | F | 16 32 3 | 6 58 8 | 21 29 15 | 14 | 4 42 | 18 40 | 26 57 |
| 30 | S | 16 36 0 | 7 58 59 | 21 39 28 | 50 | 5 1 6 | 22 26 | 55 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 08 4 | 178 0 | 48 36 | 27 30 | 2 N 0 | 78 6 | 102 4 |
| 4 | 0 6 | 17 37 | 4 37 | 27 67 | 1 48 | 8 59 | 9 55 |
| 7 | 0 8 | 18 13 | 4 33 | 27 58 | 1 34 | 10 53 | 9 45 |
| 10 | 0 10 | 18 48 | 4 27 | 27 56 | 1 15 | 12 47 | 9 36 |
| 13 | 0 12 | 19 21 | 4 21 | 27 49 | 0 56 | 14 37 | 9 28 |
| 16 | 0 14 | 19 52 | 4 9 | 27 37 | 0 36 | 16 21 | 9 17 |
| 19 | 0 16 | 20 23 | 3 54 | 27 23 | 0 15 | 17 59 | 9 7 |
| 22 | 0 18 | 20 51 | 3 36 | 27 8 | 08 6 | 19 29 | 8 58 |
| 25 | 0 19 | 21 18 | 3 12 | 26 39 | 0 25 | 20 51 | 8 48 |
| 28 | 0 20 | 21 43 | 2 44 | 26 11 | 0 45 | 22 4 | 8 39 |

| D
M | h | | M | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|------|-------|----|-------|-----|-------|-----|-------|----|------------------|----------------|---|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☉ | ☽ | ☾ | ♂ | ♀ | ♂ | ♀ |
| 1 | 15 | r 54 | 11 | 1 | 17 | m 1 | 22 | f 9 | 28 | 3 | | | | | ♂ | | | |
| 2 | 15 | B.50 | 11 | 13 | 17 | 48 | 22 | 51 | 24 | 95 | | | | | | | ♂ | |
| 3 | 15 | 46 | 11 | 25 | 18 | 26 | 23 | 32 | 26 | 8 | | | | | | | | |
| 4 | 15 | 42 | 11 | 37 | 19 | 8 | 24 | 12 | 27 | 42 | H ♂ ♀ | ♂ | ♂ | | | ♂ | | |
| 5 | 15 | 38 | 11 | 49 | 19 | 50 | 24 | 50 | 29 | 16 | M P h | | | | | | | |
| 6 | 15 | 34 | 12 | 1 | 20 | 32 | 25 | 27 | 0 m | 52 | | | | | | | | |
| 7 | 15 | 31 | 12 | 13 | 21 | 15 | 26 | 3 | 2 | 28 | | | | | | | | |
| 8 | 15 | 27 | 12 | 25 | 21 | 57 | 26 | 33 | 4 | 4 | | | | | | | | |
| 9 | 15 | 23 | 12 | 37 | 22 | 40 | 27 | 12 | 5 | 41 | | | | | | | | |
| 10 | 15 | 19 | 12 | 49 | 23 | 23 | 27 | 44 | 7 | 18 | H Δ ♀ | | | | | | | |
| 11 | 15 | 16 | 13 | 1 | 24 | 5 | 28 | 14 | 8 | 55 | | | | | | | | |
| 12 | 15 | 12 | 13 | 12 | 24 | 47 | 28 | 42 | 10 | 32 | | | | | | | | |
| 13 | 15 | 9 | 13 | 23 | 25 | 30 | 29 | 9 | 12 | 8 | | | | | | | | |
| 14 | 15 | 6 | 13 | 35 | 26 | 13 | 29 | 35 | 13 | 46 | | | | | | | | |
| 15 | 15 | 3 | 13 | 46 | 26 | 56 | 29 | 59 | 15 | 21 | ♀ ∠ ♀ | | | | | | | |
| 16 | 15 | 0 | 13 | 58 | 27 | 38 | 0 w | 21 | 16 | 57 | | | | | | | | |
| 17 | 14 | 57 | 14 | 9 | 28 | 21 | 0 | 41 | 18 | 33 | | | | | | | | |
| 18 | 14 | 54 | 14 | 20 | 29 | 4 | 0 | 59 | 20 | 9 | | | | | | | | |
| 19 | 14 | 51 | 14 | 31 | 29 | 47 | 1 | 15 | 21 | 45 | | | | | | | | |
| 20 | 14 | 48 | 14 | 43 | 0 f | 30 | 1 | 29 | 23 | 20 | h ♂ M | | | | | | | |
| 21 | 14 | 45 | 14 | 54 | 1 | 14 | 1 | 41 | 24 | 55 | | | | | | | | |
| 22 | 14 | 42 | 15 | 4 | 1 | 57 | 1 | 50 | 26 | 30 | ☉ ∠ M | | | | | | | |
| 23 | 14 | 39 | 15 | 15 | 2 | 40 | 1 | 57 | 28 | 5 | | | | | | | | |
| 24 | 14 | 37 | 15 | 26 | 3 | 23 | 2 | 29 | 40 | | h ☐ ♀ | | | | | | | |
| 25 | 14 | 35 | 15 | 37 | 4 | 6 | 2 | 5 | 1 f | 14 | M ∠ ♀ | | | | | | | |
| 26 | 14 | 33 | 15 | 47 | 4 | 50 | 2 B | 5 | 2 | 49 | | | | | | | | |
| 27 | 14 | 31 | 15 | 58 | 5 | 34 | 2 | 8 | 4 | 24 | | | | | | | | |
| 28 | 14 | 29 | 16 | 8 | 6 | 17 | 1 | 59 | 5 | 59 | ☉ ♂ ♀ | | | | | | | |
| 29 | 14 | 27 | 16 | 18 | 7 | 1 | 1 | 52 | 7 | 33 | ☉ ♂ ♂ | | | | | | | |
| 30 | 14 | 25 | 16 | 29 | 7 | 44 | 1 | 42 | 9 | 7 | | | | | | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 34 | 9 N 51 | 2 S 40 | 3 N 13 | 1 N 11 | 5 S 27 |
| 4 | 16 | 15 | 0 34 | 9 49 | 2 39 | 3 12 | 1 12 | 5 38 |
| 7 | 16 | 16 | 0 34 | 9 48 | 2 39 | 3 11 | 1 12 | 5 49 |
| 10 | 16 | 16 | 0 34 | 9 46 | 2 38 | 3 11 | 1 13 | 5 59 |
| 13 | 16 | 16 | 0 34 | 9 45 | 2 37 | 3 11 | 1 13 | 6 9 |
| 16 | 16 | 17 | 0 34 | 9 44 | 2 37 | 3 11 | 1 14 | 6 18 |
| 19 | 16 | 17 | 0 34 | 9 43 | 2 36 | 3 12 | 1 15 | 6 27 |
| 22 | 16 | 17 | 0 33 | 9 43 | 2 35 | 3 14 | 1 15 | 6 35 |
| 25 | 16 | 17 | 0 33 | 9 42 | 2 34 | 3 15 | 1 16 | 6 43 |
| 28 | 16 | 17 | 0 33 | 9 42 | 2 33 | 3 17 | 1 16 | 6 51 |
| 31 | 16 | 17 | 0 33 | 9 41 | 2 32 | 3 19 | 1 17 | 6 58 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|----|----|------------|-------------|------------|-----------|-------------|------------|
| | | H. | M. | S. | ° | ' | " | ° | ' | ° |
| 1 | S | 16 | 39 | 57 | 8 59 | 52 | 21 S 49 | 12 m 15 | 5 N 4 | 10 S 42 |
| 2 | M | 16 | 43 | 53 | 10 0 | 46 | 21 58 | 25 27 | 4 49 | 14 27 |
| 3 | Tu | 16 | 47 | 50 | 11 1 | 41 | 22 7 | 8 26 | 4 21 | 17 26 |
| 4 | W | 16 | 51 | 46 | 12 2 | 37 | 22 15 | 21 10 | 3 39 | 19 31 |
| 5 | Th | 16 | 55 | 43 | 13 3 | 34 | 22 23 | 3 38 | 2 48 | 20 37 |
| 6 | F | 16 | 59 | 39 | 14 4 | 32 | 22 30 | 15 53 | 1 49 | 20 42 |
| 7 | S | 17 | 3 | 36 | 15 5 | 31 | 22 37 | 27 55 | 0 47 | 19 50 |
| 8 | S | 17 | 7 | 32 | 16 6 | 31 | 22 44 | 9 47 | 0 S 17 | 18 5 |
| 9 | M | 17 | 11 | 29 | 17 7 | 31 | 22 50 | 21 35 | 1 20 | 15 35 |
| 10 | Tu | 17 | 15 | 26 | 18 8 | 32 | 22 56 | 3 22 | 2 20 | 12 27 |
| 11 | W | 17 | 19 | 22 | 19 9 | 33 | 23 1 | 15 14 | 3 14 | 8 48 |
| 12 | Th | 17 | 23 | 19 | 20 10 | 35 | 23 6 | 27 16 | 4 0 | 4 45 |
| 13 | F | 17 | 27 | 15 | 21 11 | 37 | 23 10 | 9 33 | 4 86 | 0 27 |
| 14 | S | 17 | 31 | 12 | 22 12 | 40 | 23 14 | 22 10 | 5 0 | 4 N 0 |
| 15 | S | 17 | 35 | 8 | 23 13 | 43 | 23 17 | 5 11 | 5 10 | 8 23 |
| 16 | M | 17 | 39 | 5 | 24 14 | 47 | 23 20 | 18 37 | 5 3 | 12 31 |
| 17 | Tu | 17 | 43 | 1 | 25 15 | 51 | 23 22 | 2 29 | 4 38 | 16 7 |
| 18 | W | 17 | 46 | 58 | 26 16 | 55 | 23 24 | 16 43 | 3 56 | 18 53 |
| 19 | Th | 17 | 50 | 55 | 27 18 | 0 | 23 26 | 1 14 | 2 58 | 20 29 |
| 20 | F | 17 | 54 | 51 | 28 19 | 6 | 23 27 | 15 56 | 1 47 | 20 44 |
| 21 | S | 17 | 58 | 48 | 29 20 | 12 | 23 27 | 0 42 | 0 29 | 19 33 |
| 22 | S | 18 | 2 | 44 | 0 21 | 18 | 23 27 | 15 24 | 0 N 52 | 17 3 |
| 23 | M | 18 | 6 | 41 | 1 22 | 25 | 23 27 | 29 58 | 2 8 | 13 29 |
| 24 | Tu | 18 | 10 | 37 | 2 23 | 33 | 23 26 | 14 18 | 3 15 | 9 11 |
| 25 | W | 18 | 14 | 34 | 3 24 | 41 | 23 25 | 28 22 | 4 8 | 4 27 |
| 26 | Th | 18 | 18 | 30 | 4 25 | 50 | 23 23 | 12 11 | 4 47 | 0 S 25 |
| 27 | F | 18 | 22 | 27 | 5 26 | 59 | 23 21 | 25 44 | 5 8 | 5 10 |
| 28 | S | 18 | 26 | 24 | 6 28 | 9 | 23 18 | 9 1 | 5 13 | 9 34 |
| 29 | S | 18 | 30 | 20 | 7 29 | 20 | 23 15 | 22 4 | 5 1 | 13 27 |
| 30 | M | 18 | 34 | 17 | 8 30 | 30 | 23 11 | 4 54 | 4 34 | 16 38 |
| 31 | Tu | 18 | 38 | 13 | 9 31 | 41 | 23 7 | 17 30 | 3 54 | 18 59 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|-----------------|---|---|---|---|---|--|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 0 S 21 | 22 S 6 | 2 S 11 | 25 S 38 | 1 S 2 | 23 S 6 | 8 Ω 29 | | | | | | |
| 4 | 0 23 | 22 28 | 1 34 | 25 2 | 1 24 | 23 59 | 8 20 | | | | | | |
| 7 | 0 25 | 22 47 | 0 52 | 24 20 | 1 35 | 24 40 | 8 10 | | | | | | |
| 10 | 0 27 | 23 5 | 0 8 | 23 35 | 1 48 | 25 9 | 8 1 | | | | | | |
| 13 | 0 29 | 23 20 | 0 N 39 | 22 46 | 1 58 | 25 26 | 7 51 | | | | | | |
| 16 | 0 31 | 23 34 | 1 26 | 21 56 | 2 7 | 25 30 | 7 41 | | | | | | |
| 19 | 0 33 | 23 45 | 2 11 | 21 5 | 2 10 | 25 20 | 7 32 | | | | | | |
| 22 | 0 35 | 23 54 | 2 53 | 20 17 | 2 12 | 24 57 | 7 22 | | | | | | |
| 25 | 0 36 | 24 1 | 3 30 | 19 33 | 2 9 | 24 20 | 7 12 | | | | | | |
| 28 | 0 38 | 24 5 | 4 4 | 18 54 | 2 0 | 23 29 | 7 3 | | | | | | |
| 31 | 0 39 | 24 7 | 4 30 | 18 23 | 1 45 | 22 26 | 6 58 | | | | | | |
| D
M | h | ♂ | ♀ | ♂ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♂ | ♀ | ♀ | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 14 r 23 | 16 ♄ 39 | 8 ♄ 28 | 1 ♄ 30 | 10 ♄ 41 | | | | | | | | |
| 2 | 14 R 21 | 16 49 | 9 12 | 1 R 16 | 12 15 | | | | | | | | |
| 3 | 14 19 | 16 59 | 9 56 | 0 59 | 13 49 | h Δ ♀ | ♄ | | Δ | | ♄ | ♄ | |
| 4 | 14 18 | 17 9 | 10 39 | 0 40 | 15 23 | ☉ □ h | | Δ | | * | | | |
| 5 | 14 17 | 17 19 | 11 23 | 0 19 | 16 58 | ♂ * ♀ | | | | | | ♄ | |
| 6 | 14 16 | 17 29 | 12 7 | 29 ♄ 55 | 18 32 | ☉ Δ h | | | □ | □ | | | |
| 7 | 14 15 | 17 39 | 12 51 | 29 30 | 20 6 | | | □ | | | | | |
| 8 | 14 14 | 17 48 | 13 35 | 29 2 | 21 40 | | | | * | | * | | |
| 9 | 14 13 | 17 57 | 14 19 | 28 32 | 23 14 | h Δ ♂ | * | * | | Δ | | * | |
| 10 | 14 12 | 18 6 | 15 3 | 28 1 | 24 48 | ☉ * ♂ | | | | | | * | |
| 11 | 14 11 | 18 15 | 15 48 | 27 28 | 26 23 | h Δ ♀ | □ | | | | □ | | |
| 12 | 14 10 | 18 24 | 16 32 | 26 54 | 27 57 | ♀ ☉ ♀ | | | | | | □ | |
| 13 | 14 10 | 18 33 | 17 16 | 26 20 | 29 32 | | | | ♄ | | | □ | |
| 14 | 14 10 | 18 42 | 18 0 | 25 44 | 1 ♄ 6 | | Δ | ♄ | | ♄ | Δ | Δ | |
| 15 | 14 9 | 18 51 | 18 44 | 25 8 | 2 41 | ♂ * ♂ | | | | | | Δ | |
| 16 | 14 9 | 18 59 | 19 23 | 24 32 | 4 15 | ☉ ☉ ♀ | | | | | | | |
| 17 | 14 9 | 19 7 | 20 13 | 23 55 | 5 50 | | | | | | | | |
| 18 | 14 9 | 19 16 | 20 57 | 23 19 | 7 25 | ☉ Δ h | | | * | Δ | ♄ | ♄ | |
| 19 | 14 D 9 | 19 24 | 21 42 | 22 42 | 8 59 | | ♄ | * | | | | | |
| 20 | 14 9 | 19 32 | 22 26 | 22 8 | 10 34 | ♄ ☉ ♀ | | | □ | □ | | ♄ | |
| 21 | 14 10 | 19 40 | 23 11 | 21 33 | 12 8 | | | □ | | | | | |
| 22 | 14 10 | 19 48 | 23 55 | 21 2 | 13 42 | h □ ♀ | | | Δ | * | | Δ | |
| 23 | 14 10 | 19 56 | 24 40 | 20 31 | 15 16 | | Δ | Δ | | | Δ | | |
| 24 | 14 11 | 20 4 | 25 20 | 1 16 | 50 | ♂ * ♀ | | | | | □ | Δ | |
| 25 | 14 12 | 20 11 | 26 10 | 19 31 | 18 23 | h Δ ♂ | □ | | | | □ | | |
| 26 | 14 13 | 20 19 | 26 25 | 19 4 | 19 55 | | | | ♄ | ♄ | | * | |
| 27 | 14 14 | 20 26 | 27 40 | 18 40 | 21 27 | | | ♄ | | ♄ | * | □ | |
| 28 | 14 15 | 20 33 | 28 25 | 18 18 | 22 57 | | * | | | | | | |
| 29 | 14 16 | 20 40 | 29 10 | 17 59 | 24 26 | ☉ P ♀ | | | | | | * | |
| 30 | 14 18 | 20 47 | 29 55 | 17 40 | 25 53 | h □ ♀ | | | | | | | |
| 31 | 14 20 | 20 53 | 0 ♄ 40 | 17 26 | 27 19 | | | | Δ | * | | ♄ | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | ' | ° | ° | H. M. S. | | | ° | ° | ° | ° | ' | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 32 | 5 | 28 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 37 | 1 | 12 | 20 | 18 | 11 | 6 | 29 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 30 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 6 | 2 | 8 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 2 |
| 0 | 22 | 2 | 6 | 16 | 30 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 25 | 42 | 7 | 17 | 31 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 23 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 26 | 11 | 21 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 49 | 13 | 8 |
| 0 | 44 | 8 | 12 | 22 | 4 | 5 | 58 | 22 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 9 |
| 0 | 47 | 50 | 13 | 23 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 24 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 30 | 26 | 48 | 15 | 11 |
| 0 | 55 | 14 | 15 | 25 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 3 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 2 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 14 |
| 1 | 10 | 7 | 19 | 30 | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 21 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 1 | 6 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 13 | 12 | 23 | 29 | 21 | 3 | 18 | 19 | 22 | 1 | 6 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 30 | 22 | 3 | 22 | 23 | 23 | 2 | 7 | 2 | 59 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 3 | 26 | 20 | 24 | 3 | 8 | 3 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 4 | 8 | 4 | 23 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 3 | 25 | 3 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 26 | 21 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 6 | 10 | 6 | 47 | 26 | 23 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 23 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 24 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 28 | 25 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | ' | ° | ° | H. M. S. | | | ° | ° | ° | ° | ' | ° | ° |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 23 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 42 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 12 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 13 | 5 | 14 | 16 | 11 | 30 | 2 | 30 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 28 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 30 | 29 | 29 |
| 4 | 20 | 40 | 7 | 15 | 18 | 13 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 30 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 14 | 6 | 0 | 30 | 31 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 38 | 11 | 9 | 15 | 15 | 6 | 44 | 31 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 42 | 31 | 10 | 16 | 16 | 7 | 29 | 32 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 17 | 8 | 14 | 33 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 18 | 9 | 59 | 34 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 19 | 9 | 48 | 35 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 20 | 10 | 27 | 36 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 21 | 11 | 11 | 37 | 7 |
| 4 | 59 | 10 | 16 | 24 | 26 | 19 | 33 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 22 | 11 | 56 | 38 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 23 | 12 | 40 | 39 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 24 | 13 | 24 | 40 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 25 | 14 | 8 | 41 | 11 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 26 | 26 | 14 | 52 | 42 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 27 | 15 | 36 | 43 | 13 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 28 | 16 | 20 | 44 | 14 |
| 5 | 29 | 30 | 23 | 30 | 31 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 29 | 17 | 4 | 45 | 15 |
| 5 | 33 | 51 | 24 | 1 | 3 | 25 | 30 | 18 | 17 | 7 | 42 | 34 | 24 | 29 | 30 | 18 | 47 | 46 | 16 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 31 | 19 | 30 | 47 | 17 |
| 5 | 42 | 24 | 26 | 3 | 4 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 1 | 32 | 20 | 19 | 48 | 18 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 8 | 56 | 12 | 27 | 2 | 33 | 21 | 57 | 49 | 19 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 3 | 34 | 22 | 0 | 50 | 20 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 4 | 35 | 23 | 1 | 51 | 21 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 46 | 30 | 5 | 36 | 24 | 2 | 52 | 22 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | |
|----------------------------|----|----|----|----|----|-------|----|----|----------------------------|----|----|----|----|----|-------|------|----|----|
| H. | M. | S. | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° | |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 46 | 19 | 10 | 12 | 12 | 1 | 3 | 26 | 12 | 6 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 23 | 5 | 10 | 6 | 25 | 37 | 22 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | 10 | 46 | 9 | 10 | 10 | 3 | 18 | 55 | 19 | 29 |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | m |
| 8 | 57 | 52 | 12 | 16 | 11 | 0m | 28 | 27 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 11 | 1 | 8 | 14 | 14 | 5 | 21 | 30 | 23 | 4 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | † | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | † | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 12 | 5 | 12 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 12 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | vr | 13 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 22 | 7 | 14 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 15 |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 9 | 57 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 17 |
| 10 | 0 | 43 | 28 | △ | 24 | 11 | 9 | 10 | 18 | 53 | 40 | 28 | 25 | 15 | 0 | † 35 | 4 | 18 |
| 10 | 4 | 38 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 20 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 22 | 11 | 20 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 21 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | |
|----------------------------|----|----|----|----|----|-------|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° | |
| 12 | 9 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 12 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 8 | 40 | 1 | 28 | 17 | 2 | 28 | 7 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 28 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 12 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | 29 |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 40 | 9 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 22 | 10 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 12 | 3 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 26 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 7 |
| 12 | 29 | 22 | 8 | 3 | 22 | 7 | 6 | 12 | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 23 | 7 | 46 | 14 | 14 | 26 | 25 | 9 | 29 | 15 | 0vr | 45 | 20 | 9 |
| 12 | 37 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 14 | 30 | 20 | 10 | † | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 22 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 26 | 10 | 20 | 18 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 38 | 14 | 8 | 27 | 11 | 11 | 19 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 52 | 20 | 14 | 50 | 7 | 15 | 4 | 20 | 0 | 26 | 29 | 18 |
| 12 | 59 | 57 | 16 | 10 | 27 | 12 | 25 | 21 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 23 | × | 19 |
| 12 | 3 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 20 | 2 | 20 |
| 12 | 6 | 29 | 18 | 11 | 28 | 14 | 0 | 23 | 15 | 3 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 21 |
| 12 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 28 | 6 | 22 |
| 12 | 13 | 51 | 20 | 13 | † | 15 | 27 | 25 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 12 | 17 | 25 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 12 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 12 | 25 | 6 | 23 | 15 | 3 | 17 | 33 | 28 | 15 | 22 | 22 | 23 | 11 | 27 | 15 | 10 | 13 | 28 |
| 12 | 28 | 52 | 24 | 16 | 3 | 18 | 25 | m | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 29 |
| 12 | 32 | 38 | 25 | 17 | 4 | 19 | 19 | 1 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 27 | 17 | 30 |
| 12 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 15 | 34 | 41 | 26 | 14 | vr | 19 | 53 | 19 | 31 |
| 12 | 40 | 12 | 27 | 19 | 6 | 20 | 42 | 3 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 32 |
| 12 | 44 | 0 | 28 | 20 | 6 | 21 | 20 | 4 | 15 | 42 | 47 | 28 | 16 | 2 | 21 | 28 | 22 | 33 |
| 12 | 47 | 42 | 29 | 21 | 7 | 22 | 14 | 5 | 15 | 47 | 3 | 29 | 17 | 3 | 22 | 50 | 24 | 34 |
| 12 | 51 | 27 | 30 | 22 | 8 | 23 | 6 | 6 | 15 | 51 | 46 | 30 | 17 | 4 | 23 | 12 | 25 | 35 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|--------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | | ° | ° | | | | ° | ° | ° | ° | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 22 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 13 | 5 | 46 | 23 | 15 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 35 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | Oma 11 | | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 22 | 18 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 56 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 11 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 22 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 2 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 24 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 30 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 2 | 6 | 58 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 48 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 12 | 30 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 8 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 25 | 0 | 7 | 2 | 11 | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 29 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 2 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 24 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 23 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 22 | 26 | 32 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 12 | 21 | 8 |
| 17 | 43 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 49 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 11 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 7 | 2 | 51 | 25 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 13 | 20 | 8 | 45 | 30 | 22 | 3 | 5 | 47 | 28 | 13 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | | ° | ° | | | | ° | ° | ° | ° | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 20 | 8 | 45 | 0 | 23 | 8 | 5 | 47 | 26 | 13 | 22 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 22 | 9 |
| 20 | 12 | 54 | 1 | 24 | 9 | 7 | 10 | 28 | 14 | 22 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 10 | 8 | 33 | 29 | 15 | 22 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 23 | 10 |
| 20 | 21 | 11 | 3 | 26 | 11 | 9 | 50 | 30 | 16 | 22 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 11 |
| 20 | 25 | 19 | 4 | 27 | 12 | 11 | 7 | 35 | 17 | 22 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 25 | 12 |
| 20 | 29 | 26 | 5 | 28 | 13 | 12 | 23 | 1 | 17 | 22 | 27 | 23 | 5 | 9 | 28 | 10 | 50 | 26 | 13 |
| 20 | 33 | 31 | 6 | 29 | 14 | 13 | 39 | 2 | 18 | 22 | 31 | 8 | 6 | 10 | 11 | 11 | 35 | 28 | 13 |
| 20 | 37 | 37 | 7 | 30 | 15 | 14 | 50 | 3 | 19 | 22 | 34 | 54 | 7 | 12 | 1 | 12 | 23 | 27 | 14 |
| 20 | 41 | 41 | 8 | 31 | 16 | 16 | 0 | 4 | 20 | 22 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 15 |
| 20 | 45 | 45 | 9 | 32 | 17 | 17 | 8 | 5 | 21 | 22 | 42 | 25 | 9 | 14 | 3 | 14 | 49 | 29 | 16 |
| 20 | 49 | 49 | 10 | 33 | 18 | 18 | 16 | 6 | 22 | 22 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 30 | 17 |
| 20 | 53 | 51 | 11 | 34 | 19 | 19 | 22 | 7 | 23 | 22 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 31 | 18 |
| 20 | 57 | 53 | 12 | 35 | 20 | 20 | 27 | 7 | 23 | 22 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 1 | 18 |
| 21 | 1 | 53 | 13 | 36 | 21 | 21 | 30 | 8 | 24 | 22 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 2 | 19 |
| 21 | 5 | 53 | 14 | 37 | 22 | 22 | 32 | 9 | 25 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 3 | 20 |
| 21 | 9 | 53 | 15 | 38 | 23 | 23 | 33 | 10 | 26 | 23 | 4 | 46 | 15 | 22 | 10 | 18 | 7 | 4 | 21 |
| 21 | 13 | 53 | 16 | 39 | 24 | 24 | 33 | 11 | 27 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 5 | 22 |
| 21 | 17 | 50 | 17 | 40 | 25 | 25 | 30 | 12 | 27 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 6 | 23 |
| 21 | 21 | 47 | 18 | 41 | 26 | 26 | 28 | 13 | 28 | 23 | 15 | 52 | 18 | 26 | 13 | 20 | 12 | 7 | 24 |
| 21 | 25 | 44 | 19 | 42 | 27 | 27 | 24 | 14 | 29 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 8 | 25 |
| 21 | 29 | 40 | 20 | 43 | 28 | 28 | 20 | 15 | 30 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 9 | 26 |
| 21 | 33 | 36 | 21 | 44 | 29 | 29 | 15 | 16 | 1 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 10 | 27 |
| 21 | 37 | 29 | 22 | 45 | 30 | 30 | 9 | 16 | 2 | 23 | 30 | 37 | 22 | 30 | 17 | 23 | 52 | 11 | 28 |
| 21 | 41 | 23 | 23 | 46 | 31 | 1 | 2 | 16 | 3 | 23 | 34 | 16 | 23 | 1 | 18 | 24 | 33 | 12 | 29 |
| 21 | 45 | 16 | 24 | 47 | 32 | 1 | 55 | 17 | 4 | 23 | 37 | 58 | 24 | 2 | 19 | 24 | 12 | 13 | 30 |
| 21 | 49 | 9 | 25 | 48 | 33 | 2 | 47 | 18 | 5 | 23 | 41 | 39 | 25 | 3 | 20 | 24 | 53 | 14 | 31 |
| 21 | 53 | 1 | 26 | 49 | 34 | 3 | 39 | 19 | 6 | 23 | 45 | 19 | 26 | 4 | 21 | 25 | 28 | 15 | 32 |
| 21 | 56 | 53 | 27 | 50 | 35 | 4 | 29 | 20 | 7 | 23 | 49 | 0 | 27 | 5 | 22 | 26 | 11 | 16 | 33 |
| 22 | 0 | 43 | 28 | 51 | 36 | 5 | 18 | 21 | 8 | 23 | 53 | 40 | 28 | 6 | 23 | 27 | 49 | 17 | 34 |
| 22 | 4 | 33 | 29 | 52 | 37 | 6 | 7 | 22 | 9 | 23 | 56 | 20 | 29 | 7 | 24 | 28 | 27 | 18 | 35 |
| 22 | 8 | 23 | 30 | 53 | 38 | 7 | 0 | 23 | 10 | 23 | 0 | 0 | 30 | 8 | 25 | 29 | 27 | 19 | 36 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their STRENGTHENING and RESTORATIVE Properties. Hence their invariable success in the RELIEF and CURE of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the NERVOUS SYSTEM,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The ORIENTAL PILLS are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The SOLAR ELIXIR in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained GRATIS of any Chemist, or POST FREE from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, SHERIDAN KNOWLES, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by JAMES M. CROSBY, Chemist, Scarborough.

Invalids should read Crosby's Prize Treatise on "DISEASES OF THE LUNGS AND AIR VESSELS," a copy of which can be had Gratis of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR.

Opium, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR.

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdued Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment for this disease."

CROSBY'S BALSAMIC COUGH ELIXIR.

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR.

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR.

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

**CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

Ask your Chemist for the New Edition (GRATA) of Crosby's Prime Treatise on "**DISEASES OF THE LUNGS AND AIR-VESSELS**," containing full and plain instructions for the relief and cure of these diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

For 1851.

Price One Shilling.

(21.11.27) - 100

1

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituuous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Rook, under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. ROOKE, Scarborough, England.

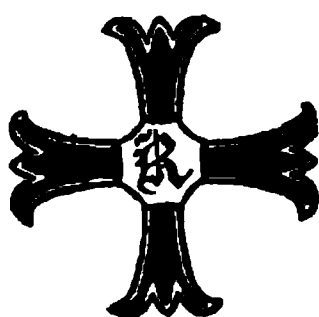
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 172 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1851.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1850

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 17 | 0 83 | 9 N 41 | 2 83 | 3 N 20 | 1 N 18 | 7 8 0 |
| 4 | 16 | 17 | 0 83 | 9 41 | 2 31 | 3 23 | 1 19 | 7 6 |
| 7 | 16 | 17 | 0 83 | 9 41 | 2 30 | 3 26 | 1 19 | 7 12 |
| 10 | 16 | 17 | 0 83 | 9 42 | 2 29 | 3 30 | 1 20 | 7 17 |
| 13 | 16 | 17 | 0 83 | 9 42 | 2 28 | 3 34 | 1 21 | 7 22 |
| 16 | 16 | 17 | 0 83 | 9 43 | 2 27 | 3 38 | 1 21 | 7 26 |
| 19 | 16 | 16 | 0 82 | 9 44 | 2 26 | 3 43 | 1 22 | 7 29 |
| 22 | 16 | 16 | 0 82 | 9 45 | 2 25 | 3 48 | 1 23 | 7 32 |
| 25 | 16 | 16 | 0 82 | 9 46 | 2 25 | 3 53 | 1 24 | 7 34 |
| 28 | 16 | 15 | 0 82 | 9 47 | 2 24 | 3 58 | 1 24 | 7 36 |
| 31 | 16 | 15 | 0 82 | 9 49 | 2 24 | 4 4 | 1 25 | 7 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 18 42 10 | 10 w 32 52 | 23 S 2 | 29 155 | 3 N 4 | 20 S 24 | 26 r 25 |
| 2 | Th | 18 46 6 | 11 34 3 | 22 57 | 12 w 9 | 2 5 | 20 49 | 26 R 25 |
| 3 | F | 18 50 3 | 12 35 14 | 22 52 | 24 13 | 1 2 | 20 16 | 26 25 |
| 4 | S | 18 53 59 | 13 36 25 | 22 46 | 6 m 9 | 0 S 3 | 18 48 | 26 24 |
| 5 | S | 18 57 56 | 14 37 35 | 22 39 | 17 59 | 1 8 | 16 32 | 26 24 |
| 6 | M | 19 1 53 | 15 38 46 | 22 32 | 29 46 | 2 10 | 13 35 | 26 24 |
| 7 | Tu | 19 5 49 | 16 39 56 | 22 25 | 11 x 33 | 3 6 | 10 6 | 26 D 24 |
| 8 | W | 19 9 46 | 17 41 5 | 22 17 | 23 25 | 3 55 | 6 13 | 26 25 |
| 9 | Th | 19 13 42 | 18 43 14 | 22 9 | 5 r 25 | 4 34 | 2 2 | 26 25 |
| 10 | F | 19 17 39 | 19 44 24 | 22 0 | 17 39 | 5 2 | 2 N 17 | 26 26 |
| 11 | S | 19 21 35 | 20 44 30 | 21 51 | 0 S 12 | 5 16 | 6 37 | 26 26 |
| 12 | S | 19 25 32 | 21 45 37 | 21 43 | 18 7 | 5 14 | 10 47 | 26 26 |
| 13 | M | 19 29 28 | 22 46 43 | 21 32 | 26 27 | 4 57 | 14 34 | 26 26 |
| 14 | Tu | 19 33 25 | 23 47 49 | 21 23 | 10 16 | 4 21 | 17 42 | 26 27 |
| 15 | W | 19 37 22 | 24 48 54 | 21 11 | 24 31 | 3 29 | 19 52 | 26 27 |
| 16 | Th | 19 41 18 | 25 49 58 | 21 0 | 9 S 9 | 2 21 | 20 47 | 26 28 |
| 17 | F | 19 45 15 | 26 51 2 | 20 48 | 24 6 | 1 3 | 20 16 | 26 28 |
| 18 | S | 19 49 11 | 27 52 5 | 20 36 | 9 S 12 | 0 N 20 | 18 18 | 26 29 |
| 19 | S | 19 53 8 | 28 53 7 | 20 24 | 24 18 | 1 43 | 15 2 | 26 30 |
| 20 | M | 19 57 4 | 29 54 9 | 20 11 | 9 w 17 | 2 57 | 10 50 | 26 30 |
| 21 | Tu | 20 1 1 | 0 m 55 | 19 58 | 23 59 | 3 58 | 6 2 | 26 31 |
| 22 | W | 20 4 58 | 1 56 11 | 19 45 | 8 S 21 | 4 43 | 1 2 | 26 32 |
| 23 | Th | 20 8 54 | 2 57 12 | 19 31 | 22 19 | 5 10 | 3 S 54 | 26 33 |
| 24 | F | 20 12 51 | 3 58 12 | 19 17 | 6 m 54 | 5 18 | 8 29 | 26 34 |
| 25 | S | 20 16 47 | 4 59 11 | 19 2 | 19 6 | 5 9 | 12 33 | 26 35 |
| 26 | S | 2 44 | 6 0 9 | 18 47 | 1 158 | 4 45 | 15 55 | 26 36 |
| 27 | M | 2 40 | 7 1 7 | 18 32 | 14 32 | 4 8 | 18 28 | 26 37 |
| 28 | Tu | 2 37 | 8 2 5 | 18 16 | 26 53 | 3 19 | 20 6 | 26 38 |
| 29 | W | 2 33 | 9 3 1 | 18 9 | 9 w 2 | 2 22 | 20 47 | 26 39 |
| 30 | Th | 2 30 | 10 3 57 | 17 44 | 21 3 | 1 20 | 20 30 | 26 41 |
| 31 | F | 2 27 | 11 4 51 | 17 28 | 2 m 57 | 0 15 | 19 17 | 26 42 |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 32 | 9 N 49 | 2 24 | 4 N 6 | 1 N 25 | 7 S 37 |
| 4 | 16 | 14 | 0 32 | 9 51 | 2 23 | 4 12 | 1 26 | 7 37 |
| 7 | 16 | 14 | 0 32 | 9 53 | 2 22 | 4 19 | 1 26 | 7 37 |
| 10 | 16 | 13 | 0 32 | 9 55 | 2 22 | 4 25 | 1 27 | 7 36 |
| 13 | 16 | 13 | 0 32 | 9 57 | 2 21 | 4 32 | 1 28 | 7 34 |
| 16 | 16 | 12 | 0 31 | 9 59 | 2 21 | 4 39 | 1 28 | 7 32 |
| 19 | 16 | 12 | 0 31 | 10 2 | 2 20 | 4 46 | 1 29 | 7 29 |
| 22 | 16 | 11 | 0 31 | 10 4 | 2 20 | 4 53 | 1 30 | 7 25 |
| 25 | 16 | 10 | 0 31 | 10 7 | 2 19 | 5 1 | 1 30 | 7 21 |
| 28 | 16 | 9 | 0 31 | 10 9 | 2 19 | 5 9 | 1 31 | 7 16 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 20 44 23 | 12 ^m 5 45 | 17 S 11 | 14 ^m 47 | 0 S 51 | 17 S 14 | 26 ^r 44 |
| 2 | S | 20 48 20 | 13 6 37 | 16 54 | 26 35 | 1 54 | 14 27 | 26 46 |
| 3 | M | 20 52 16 | 14 7 28 | 16 36 | 8 ^x 23 | 2 52 | 11 6 | 26 47 |
| 4 | Tu | 20 56 13 | 15 8 18 | 16 18 | 20 13 | 3 43 | 7 18 | 26 48 |
| 5 | W | 21 0 9 | 16 9 7 | 16 0 | 2 ^r 8 | 4 25 | 3 12 | 36 50 |
| 6 | Th | 21 4 6 | 17 9 54 | 15 42 | 14 11 | 4 55 | 1 N 3 | 26 51 |
| 7 | F | 21 8 2 | 18 10 39 | 15 24 | 26 26 | 5 13 | 5 20 | 26 53 |
| 8 | S | 21 11 59 | 19 11 23 | 15 5 | 8 ^x 55 | 5 16 | 9 29 | 26 55 |
| 9 | S | 21 15 55 | 20 12 6 | 14 46 | 21 44 | 5 4 | 13 19 | 26 57 |
| 10 | M | 21 19 52 | 21 12 46 | 14 26 | 4 [□] 55 | 4 36 | 16 36 | 26 58 |
| 11 | Tu | 21 23 49 | 22 13 25 | 14 7 | 18 32 | 3 52 | 19 7 | 27 0 |
| 12 | W | 21 27 45 | 23 14 3 | 13 47 | 2 [☉] 35 | 2 52 | 20 34 | 27 2 |
| 13 | Th | 21 31 42 | 24 14 38 | 13 27 | 17 5 | 1 40 | 20 42 | 27 4 |
| 14 | F | 21 35 38 | 25 15 12 | 13 7 | 1 ^Ω 56 | 0 20 | 19 25 | 27 6 |
| 15 | S | 21 39 35 | 26 15 45 | 12 46 | 17 5 | 1 N 4 | 16 44 | 27 8 |
| 16 | S | 21 43 31 | 27 16 16 | 12 26 | 2 ^m 21 | 2 23 | 12 52 | 27 10 |
| 17 | M | 21 47 28 | 28 16 45 | 12 5 | 17 34 | 3 32 | 8 10 | 27 12 |
| 18 | Tu | 21 51 24 | 29 17 13 | 11 44 | 2 [☿] 34 | 4 25 | 3 2 | 27 14 |
| 19 | W | 21 55 21 | 0 ^x 17 39 | 11 23 | 17 14 | 4 59 | 2 S 10 | 27 17 |
| 20 | Th | 21 59 18 | 1 18 4 | 11 1 | 1 ^m 28 | 5 14 | 7 5 | 27 19 |
| 21 | F | 22 3 14 | 2 18 28 | 10 40 | 15 13 | 5 10 | 11 28 | 27 21 |
| 22 | S | 22 7 11 | 3 18 50 | 10 18 | 28 30 | 4 49 | 15 8 | 27 24 |
| 23 | S | 22 11 7 | 4 19 11 | 9 56 | 11 [†] 22 | 4 14 | 17 58 | 27 26 |
| 24 | M | 22 15 4 | 5 19 31 | 9 34 | 23 52 | 3 28 | 19 51 | 27 28 |
| 25 | Tu | 22 19 0 | 6 19 49 | 9 12 | 6 ^w 6 | 2 34 | 20 46 | 27 31 |
| 26 | W | 22 22 57 | 7 20 5 | 8 49 | 18 7 | 1 33 | 20 42 | 27 33 |
| 27 | Th | 22 26 53 | 8 20 20 | 8 27 | 29 59 | 0 29 | 19 42 | 27 35 |
| 28 | F | 22 30 50 | 9 20 34 | 8 4 | 11 [≈] 47 | 0 S 35 | 17 50 | 27 38 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 S 55 | 22 S 3 | 4 N 56 | 18 S 31 | 2 N 58 | 18 S 35 | 5 Ω 12 |
| 4 | 0 57 | 21 38 | 4 45 | 18 43 | 2 25 | 19 8 | 5 2 |
| 7 | 0 58 | 21 11 | 4 32 | 18 54 | 1 51 | 19 32 | 4 53 |
| 10 | 1 0 | 20 41 | 4 19 | 19 3 | 1 16 | 19 48 | 4 43 |
| 13 | 1 1 | 20 10 | 4 5 | 19 9 | 0 42 | 19 53 | 4 33 |
| 16 | 1 2 | 19 37 | 3 49 | 19 13 | 0 11 | 19 48 | 4 24 |
| 19 | 1 3 | 19 2 | 3 37 | 19 13 | 0 S 17 | 19 31 | 4 14 |
| 22 | 1 4 | 18 25 | 3 17 | 19 10 | 0 44 | 19 3 | 4 5 |
| 25 | 1 5 | 17 46 | 3 2 | 19 2 | 1 7 | 18 23 | 3 55 |
| 28 | 1 6 | 17 5 | 2 45 | 18 51 | 1 26 | 17 31 | 3 46 |

| D
M | h | ♄ | ♂ | ♀ | ♅ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♀ | ♅ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 16 r 1 | 22 ♄ 57 | 25 ♀ 3 | 28 ♀ 12 | 22 ♀ 59 | ♄ □ ♅ | ☉ | | * | | | |
| 2 | 16 6 | 22 58 | 25 49 | 28 57 | 22 51 | | | * | | Δ | | * |
| 3 | 16 11 | 22 59 | 26 36 | 29 43 | 22 D 49 | ♄ □ ♂ | | | | | | |
| 4 | 16 16 | 22 59 | 27 22 | 0 ♀ 30 | 22 55 | ♄ □ ♅ | | | | | | * |
| 5 | 16 21 | 23 0 | 28 2 | 1 18 | 23 8 | ☉ * h | | | | | * | □ |
| 6 | 16 26 | 23 0 | 28 55 | 2 7 | 23 27 | | * | | ♄ | | | |
| 7 | 16 31 | 23 0 | 29 42 | 2 56 | 23 52 | | | ♄ | | ♅ | □ | Δ |
| 8 | 16 36 | 23 0 | 0 m 28 | 3 46 | 24 23 | | | | | | □ | Δ |
| 9 | 16 41 | 22 R 59 | 1 15 | 4 38 | 24 58 | | □ | | | | | Δ |
| 10 | 16 47 | 22 59 | 2 1 | 5 31 | 25 38 | | | | | | Δ | |
| 11 | 16 52 | 22 58 | 2 48 | 6 23 | 26 23 | | Δ | | * | Δ | | |
| 12 | 16 57 | 22 58 | 3 34 | 7 16 | 27 11 | ☉ Δ ♄ | | * | | | ♅ | |
| 13 | 17 3 | 22 57 | 4 21 | 8 10 | 28 2 | | | | □ | □ | ♅ | |
| 14 | 17 8 | 22 56 | 5 7 | 9 5 | 28 57 | | | □ | | | ♅ | ♅ |
| 15 | 17 14 | 22 54 | 5 54 | 10 0 | 29 55 | | | | Δ | * | | |
| 16 | 17 20 | 22 52 | 6 40 | 10 55 | 0 m 55 | ☉ * h | ♅ | Δ | | | | |
| 17 | 17 26 | 22 50 | 7 27 | 11 51 | 1 59 | | | | | | Δ | |
| 18 | 17 32 | 22 48 | 8 13 | 12 48 | 3 4 | ♀ P ♂ | | | | | Δ | Δ |
| 19 | 17 38 | 22 45 | 9 0 | 13 45 | 4 12 | | | | ♅ | ♄ | □ | |
| 20 | 17 44 | 22 43 | 9 46 | 14 43 | 5 21 | | Δ | ♅ | | | | □ |
| 21 | 17 50 | 22 40 | 10 33 | 15 41 | 6 33 | ♅ P ♅ | | | | | □ | * |
| 22 | 17 56 | 22 37 | 11 20 | 16 40 | 7 47 | | □ | | | | | * |
| 23 | 18 2 | 22 34 | 12 7 | 17 38 | 9 2 | h □ ♅ | | | | | * | * |
| 24 | 18 8 | 22 31 | 12 53 | 18 38 | 10 19 | | | Δ | Δ | * | | |
| 25 | 18 14 | 22 28 | 13 40 | 19 39 | 11 38 | | * | | | | | |
| 26 | 18 21 | 22 24 | 14 27 | 20 39 | 12 59 | | | | □ | □ | ♄ | |
| 27 | 18 27 | 22 20 | 15 14 | 21 39 | 14 20 | | | □ | | | | |
| 28 | 18 34 | 22 16 | 16 1 | 22 40 | 15 42 | ♅ ☉ ♅ | | | | | ♄ | ♄ |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 31 | 10 N 10 | 2 S 18 | 5 N 11 | 1 N 31 | 7 S 15 |
| 4 | 16 | 8 | 0 31 | 10 13 | 2 18 | 5 19 | 1 32 | 7 9 |
| 7 | 16 | 8 | 0 31 | 10 16 | 2 18 | 5 27 | 1 33 | 7 3 |
| 10 | 16 | 7 | 0 31 | 10 19 | 2 17 | 5 35 | 1 33 | 6 57 |
| 13 | 16 | 6 | 0 31 | 10 23 | 2 17 | 5 44 | 1 33 | 6 50 |
| 16 | 16 | 5 | 0 31 | 10 26 | 2 16 | 5 52 | 1 34 | 6 43 |
| 19 | 16 | 4 | 0 30 | 10 29 | 2 16 | 6 0 | 1 34 | 6 35 |
| 22 | 16 | 4 | 0 30 | 10 32 | 2 16 | 6 9 | 1 35 | 6 27 |
| 25 | 16 | 3 | 0 30 | 10 36 | 2 16 | 6 17 | 1 35 | 6 19 |
| 28 | 16 | 2 | 0 30 | 10 39 | 2 16 | 6 25 | 1 35 | 6 11 |
| 31 | 16 | 1 | 0 30 | 10 43 | 2 15 | 6 34 | 1 35 | 6 2 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 22 34 47 | 10 x 20 46 | 7 S 42 | 23 x 34 | 1 S 38 | 15 S 13 | 27 r 41 |
| 2 | S | 22 38 43 | 11 20 56 | 7 19 | 5 x 22 | 2 37 | 11 59 | 27 43 |
| 3 | M | 22 42 40 | 12 21 4 | 6 56 | 17 13 | 3 29 | 8 15 | 27 46 |
| 4 | Tu | 22 47 36 | 13 21 10 | 6 33 | 29 10 | 4 12 | 4 11 | 27 48 |
| 5 | W | 22 50 33 | 14 21 14 | 6 10 | 11 r 14 | 4 44 | 0 N 6 | 27 51 |
| 6 | Th | 22 54 29 | 15 21 17 | 5 47 | 23 26 | 5 4 | 4 24 | 27 53 |
| 7 | F | 22 58 26 | 16 21 17 | 5 23 | 5 x 49 | 5 10 | 8 36 | 27 56 |
| 8 | S | 23 2 22 | 17 21 15 | 5 0 | 18 23 | 5 1 | 12 30 | 27 59 |
| 9 | S | 23 6 19 | 18 21 11 | 4 37 | 1 n 13 | 4 37 | 15 54 | 28 2 |
| 10 | M | 23 10 16 | 19 21 5 | 4 13 | 14 20 | 3 58 | 18 36 | 28 5 |
| 11 | Tu | 23 14 12 | 20 20 56 | 3 50 | 27 47 | 3 6 | 20 21 | 28 8 |
| 12 | W | 23 18 9 | 21 20 45 | 3 26 | 11 x 37 | 2 1 | 20 57 | 28 11 |
| 13 | Th | 23 22 5 | 22 20 32 | 3 2 | 25 50 | 0 47 | 20 14 | 28 14 |
| 14 | F | 23 26 2 | 23 20 17 | 2 39 | 10 Ω 25 | 0 N 32 | 18 9 | 28 17 |
| 15 | S | 23 29 58 | 24 20 0 | 2 15 | 25 18 | 1 50 | 14 49 | 28 20 |
| 16 | S | 23 33 55 | 25 19 40 | 1 51 | 10 m 24 | 3 1 | 10 28 | 28 23 |
| 17 | M | 23 37 51 | 26 19 19 | 1 28 | 25 33 | 4 0 | 5 26 | 28 26 |
| 18 | Tu | 23 41 48 | 27 18 55 | 1 4 | 10 Δ 36 | 4 41 | 0 7 | 28 29 |
| 19 | W | 23 45 45 | 28 18 30 | 0 40 | 25 22 | 5 3 | 5 S 7 | 28 32 |
| 20 | Th | 23 49 41 | 29 18 2 | 0 17 | 9 m 45 | 5 5 | 9 55 | 28 35 |
| 21 | F | 23 53 38 | 0 r 17 33 | 0 N 7 | 23 40 | 4 48 | 14 3 | 28 38 |
| 22 | S | 23 57 34 | 1 17 2 | 0 31 | 7 f 5 | 4 16 | 17 18 | 28 41 |
| 23 | S | 0 1 31 | 2 16 29 | 0 54 | 20 2 | 3 32 | 19 34 | 28 44 |
| 24 | M | 0 5 27 | 3 15 54 | 1 18 | 2 v 35 | 2 39 | 20 47 | 28 47 |
| 25 | Tu | 0 9 24 | 4 15 18 | 1 42 | 14 49 | 1 39 | 20 59 | 28 51 |
| 26 | W | 0 13 20 | 5 14 40 | 2 5 | 26 48 | 0 37 | 20 13 | 28 54 |
| 27 | Th | 0 17 17 | 6 14 0 | 2 29 | 8 m 39 | 0 S 27 | 18 33 | 28 57 |
| 28 | F | 0 21 13 | 7 13 18 | 2 52 | 20 25 | 1 28 | 16 5 | 29 1 |
| 29 | S | 0 25 10 | 8 12 35 | 3 16 | 2 x 12 | 2 26 | 12 58 | 29 4 |
| 30 | S | 0 29 7 | 9 11 49 | 3 39 | 14 3 | 3 18 | 9 19 | 29 7 |
| 31 | M | 0 33 3 | 10 11 2 | 4 2 | 26 0 | 4 1 | 5 17 | 29 10 |

APRIL XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 30 | 10 N 44 | 0 S 15 | 6 N 37 | 1 N 35 | 5 S 59 |
| 4 | 16 | 0 | 0 30 | 10 48 | 0 15 | 6 45 | 1 35 | 5 50 |
| 7 | 15 | 59 | 0 30 | 10 51 | 0 15 | 6 54 | 1 35 | 5 42 |
| 10 | 15 | 59 | 0 30 | 10 55 | 0 15 | 7 2 | 1 35 | 5 33 |
| 13 | 15 | 58 | 0 30 | 10 58 | 0 15 | 7 11 | 1 35 | 5 24 |
| 16 | 15 | 57 | 0 30 | 11 2 | 0 15 | 7 19 | 1 35 | 5 16 |
| 19 | 15 | 56 | 0 30 | 11 6 | 0 15 | 7 27 | 1 35 | 5 7 |
| 22 | 15 | 55 | 0 30 | 11 9 | 0 15 | 7 36 | 1 34 | 4 59 |
| 25 | 15 | 55 | 0 30 | 11 13 | 0 15 | 7 44 | 1 34 | 4 51 |
| 28 | 15 | 54 | 0 30 | 11 17 | 0 15 | 7 52 | 1 34 | 4 44 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 0 37 0 | 11 r 10 13 | 4 N 25 | 8 r 7 | 4 S 34 | 0 S 59 | 29 r 14 |
| 2 | W | 0 40 56 | 12 9 21 | 4 48 | 20 23 | 4 55 | 3 N 25 | 29 17 |
| 3 | Th | 0 44 53 | 13 8 28 | 5 12 | 28 49 | 5 2 | 7 44 | 29 21 |
| 4 | F | 0 48 49 | 14 7 32 | 5 34 | 15 27 | 4 54 | 11 47 | 29 24 |
| 5 | S | 0 52 46 | 15 6 34 | 5 57 | 28 16 | 4 32 | 15 22 | 29 27 |
| 6 | S | 0 56 42 | 16 5 34 | 6 20 | 11 II 17 | 3 55 | 18 16 | 29 31 |
| 7 | M | 1 0 39 | 17 4 31 | 6 43 | 24 30 | 3 520 | 15 29 | 29 34 |
| 8 | Tu | 1 4 36 | 18 3 27 | 7 5 | 7 58 | 2 421 | 9 29 | 29 37 |
| 9 | W | 1 8 32 | 19 2 20 | 7 28 | 21 42 | 0 55 | 20 48 | 29 41 |
| 10 | Th | 1 12 29 | 20 1 10 | 7 50 | 5 Ω 42 | 0 N 18 | 19 10 | 29 44 |
| 11 | F | 1 16 25 | 20 59 59 | 8 12 | 20 0 | 1 33 | 16 18 | 29 48 |
| 12 | S | 1 20 22 | 21 58 45 | 8 34 | 4 ω 32 | 2 43 | 12 23 | 29 51 |
| 13 | S | 1 24 18 | 22 57 29 | 8 56 | 19 16 | 3 42 | 7 39 | 29 55 |
| 14 | M | 1 28 15 | 23 56 11 | 9 18 | 4 6 | 4 27 | 2 27 | 29 58 |
| 15 | Tu | 1 32 11 | 24 54 50 | 9 39 | 18 52 | 4 53 | 2 S 52 | 0 2 |
| 16 | W | 1 36 8 | 25 53 28 | 10 1 | 3 m 28 | 5 1 | 7 58 | 0 5 |
| 17 | Th | 1 40 5 | 26 52 4 | 10 22 | 17 46 | 4 49 | 12 31 | 0 9 |
| 18 | F | 1 44 1 | 27 50 38 | 10 43 | 1 f 39 | 4 20 | 16 16 | 0 12 |
| 19 | S | 1 47 58 | 28 49 10 | 11 4 | 15 6 | 3 37 | 19 2 | 0 16 |
| 20 | S | 1 51 54 | 29 47 41 | 11 24 | 28 7 | 2 44 | 20 4 | 0 19 |
| 21 | M | 1 55 51 | 0 8 46 | 10 11 | 45 10 v 43 | 1 44 | 21 17 | 0 23 |
| 22 | Tu | 1 59 47 | 1 44 37 | 12 5 | 23 0 | 0 41 | 20 49 | 0 26 |
| 23 | W | 2 3 44 | 2 43 2 | 12 25 | 5 m 1 | 0 S 22 | 19 23 | 0 30 |
| 24 | Th | 2 7 40 | 3 41 20 | 12 45 | 16 53 | 1 24 | 17 7 | 0 33 |
| 25 | F | 2 11 37 | 4 39 49 | 13 5 | 28 41 | 2 22 | 14 9 | 0 37 |
| 26 | S | 2 15 34 | 5 38 10 | 13 25 | 10 x 30 | 3 14 | 10 37 | 0 40 |
| 27 | S | 2 19 30 | 6 36 29 | 13 44 | 22 25 | 3 57 | 6 38 | 0 44 |
| 28 | M | 2 23 27 | 7 34 47 | 14 3 | 4 r 29 | 4 32 | 2 21 | 0 47 |
| 29 | Tu | 2 27 23 | 8 33 3 | 14 22 | 16 45 | 4 52 | 2 N 5 | 0 51 |
| 30 | W | 2 31 20 | 9 31 17 | 14 40 | 29 14 | 5 0 | 6 31 | 0 54 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 1 S 11 | 8 S 32 | 0 N 1 | 12 S 22 | 1 S 5 | 3 N 15 | 2 Ω 4 |
| 4 | 1 11 | 7 38 | 0 S 12 | 11 23 | 0 38 | 6 4 | 1 54 |
| 7 | 1 12 | 6 44 | 0 23 | 10 20 | 0 7 | 8 54 | 1 45 |
| 10 | 1 12 | 5 50 | 0 35 | 9 15 | 0 N 26 | 11 40 | 1 35 |
| 13 | 1 12 | 4 55 | 0 46 | 8 7 | 1 0 | 14 16 | 1 26 |
| 16 | 1 12 | 3 59 | 0 56 | 6 56 | 1 31 | 16 36 | 1 16 |
| 19 | 1 11 | 3 4 | 1 5 | 5 43 | 1 59 | 18 37 | 1 7 |
| 22 | 1 11 | 2 8 | 1 14 | 4 29 | 2 21 | 20 16 | 0 57 |
| 25 | 1 11 | 1 12 | 1 22 | 3 13 | 2 36 | 21 31 | 0 48 |
| 28 | 1 10 | 0 17 | 1 29 | 1 55 | 2 43 | 22 24 | 0 38 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|---------|---------|--------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 22 r 21 | 19 ♄ 11 | 11 * 1 | 27 ♄ 25 | 10 r 43 | ☉ ♂ ♀ | ♂ | | | | | | ♂ |
| 2 | 22 28 | 18 ♄ 54 | 11 48 | 28 33 | 12 46 | | ♂ | | ♂ | | | | |
| 3 | 22 30 | 18 46 | 12 35 | 29 41 | 14 51 | ♃ * ♀ | | ♂ | | | | * | |
| 4 | 22 44 | 18 38 | 13 22 | 0 * 49 | 16 54 | | | | | | * | | |
| 5 | 22 51 | 18 31 | 14 9 | 1 57 | 19 0 | ♄ ♂ ♀ | | | | | | □ | |
| 6 | 22 59 | 18 23 | 14 56 | 3 6 | 21 5 | | * | | | | □ | | |
| 7 | 23 7 | 18 15 | 15 43 | 4 14 | 23 9 | ♀ ♂ ♄ | | * | * | Δ | | | * |
| 8 | 23 14 | 18 8 | 16 30 | 5 23 | 25 14 | ☉ ♂ ♄ | | | | | | Δ | |
| 9 | 23 21 | 18 0 | 17 17 | 6 32 | 27 11 | | □ | | □ | □ | Δ | | □ |
| 10 | 23 29 | 17 52 | 18 4 | 7 41 | 29 22 | ♃ ♂ ♀ | | □ | | | | | |
| 11 | 23 36 | 17 45 | 18 51 | 8 50 | 1 24 | | Δ | | Δ | * | | | |
| 12 | 23 44 | 17 37 | 19 37 | 9 59 | 3 25 | | | Δ | | | | ♂ | Δ |
| 13 | 23 52 | 17 29 | 20 24 | 11 7 | 5 22 | | | | | | | ♂ | |
| 14 | 23 59 | 17 21 | 21 10 | 12 16 | 7 18 | ☉ ♂ ♄ | | | | | | | |
| 15 | 24 7 | 17 14 | 21 57 | 13 26 | 9 13 | | ♂ | | ♂ | ♂ | | | |
| 16 | 24 14 | 17 6 | 22 43 | 14 36 | 11 4 | | | ♂ | | | | | |
| 17 | 24 22 | 16 59 | 23 30 | 15 45 | 12 51 | | | | | | | Δ | ♂ |
| 18 | 24 29 | 16 51 | 24 16 | 16 55 | 14 36 | | | | | | | | |
| 19 | 24 37 | 16 43 | 25 3 | 18 4 | 16 15 | | | | | * | | □ | |
| 20 | 24 45 | 16 36 | 25 48 | 19 11 | 17 52 | | Δ | | Δ | | | □ | |
| 21 | 24 52 | 16 29 | 26 36 | 20 23 | 19 26 | ☉ ♂ ♃ | | | | | □ | | |
| 22 | 25 0 | 16 22 | 27 22 | 21 33 | 20 53 | | | | □ | | * | * | Δ |
| 23 | 25 8 | 16 14 | 28 9 | 22 43 | 22 17 | | □ | □ | | | | | |
| 24 | 25 15 | 16 7 | 28 55 | 23 53 | 23 37 | | | | | Δ | | | |
| 25 | 25 23 | 16 0 | 29 42 | 25 3 | 24 51 | | | * | * | | | | □ |
| 26 | 25 30 | 15 53 | 0 r 28 | 26 13 | 26 1 | | * | | | | | | |
| 27 | 25 38 | 15 46 | 1 15 | 27 23 | 27 6 | | | | | | | ♂ | * |
| 28 | 25 45 | 15 40 | 2 1 | 28 34 | 28 6 | | | | | | | ♂ | |
| 29 | 25 53 | 15 33 | 2 47 | 29 44 | 29 1 | | | | | | ♂ | | |
| 30 | 26 1 | 15 27 | 3 33 | 0 r 54 | 29 51 | | | ♂ | ♂ | | | | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 10 | 0 N 89 | 18 34 | 0 S 37 | 2 N 40 | 22 N 54 | 0 29 |
| 4 | 1 11 | 1 34 | 1 39 | 0 N 43 | 3 27 | 23 8 | 0 19 |
| 7 | 1 9 | 2 29 | 1 44 | 2 2 | 2 4 | 22 52 | 0 10 |
| 10 | 1 8 | 3 24 | 1 47 | 3 22 | 1 30 | 22 21 | 0 0 |
| 13 | 1 7 | 4 18 | 1 49 | 4 42 | 0 48 | 21 34 | 29 51 |
| 16 | 1 6 | 5 12 | 1 52 | 6 1 | 0 0 | 20 32 | 29 41 |
| 19 | 1 6 | 6 5 | 1 52 | 7 20 | 0 S 52 | 19 22 | 29 32 |
| 22 | 1 5 | 6 57 | 1 52 | 8 37 | 1 44 | 18 9 | 29 22 |
| 25 | 1 4 | 7 49 | 1 52 | 9 53 | 2 31 | 17 2 | 29 18 |
| 28 | 1 3 | 8 40 | 1 51 | 11 8 | 3 10 | 16 7 | 29 8 |
| 31 | 1 1 | 9 30 | 1 49 | 12 20 | 3 38 | 15 29 | 28 54 |

| D
M | h | | λ | | δ | | ♀ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|----------------|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☾ | ♂ | ♀ | ☿ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 26 | 10 | 15 | 21 | 17 | 19 | 27 | 5 | 0 | 11 | 37 | ♂ ♀ | | | |
| 2 | 26 | 17 | 15 | 14 | 5 | 6 | 3 | 15 | 1 | 17 | | | | | |
| 3 | 26 | 25 | 15 | 8 | 11 | 51 | 4 | 26 | 1 | 51 | | | * | * | ☿ |
| 4 | 26 | 32 | 15 | 2 | 11 | 37 | 5 | 36 | 2 | 21 | | Δ | | | |
| 5 | 26 | 40 | 14 | 56 | 7 | 23 | 6 | 47 | 2 | 44 | | | ☐ | ☐ | |
| 6 | 26 | 47 | 14 | 50 | 8 | 9 | 7 | 57 | 3 | 3 | ♂ ♂ ♀ | * | | | |
| 7 | 26 | 55 | 14 | 44 | 8 | 55 | 9 | 8 | 3 | 17 | | | ☐ | ☐ | ☐ |
| 8 | 27 | | 14 | 39 | 9 | 41 | 10 | 18 | 3 | 25 | | | ☐ | | * |
| 9 | 27 | 9 | 14 | 33 | 10 | 27 | 11 | 29 | 3 | 28 | | Δ | Δ | | Δ |
| 10 | 27 | 16 | 14 | 28 | 11 | 13 | 12 | 40 | 3 | 26 | ♀ P ♂ | Δ | | | |
| 11 | 27 | 23 | 14 | 23 | 11 | 59 | 13 | 51 | 3 | 20 | | | | | |
| 12 | 27 | 30 | 14 | 18 | 12 | 45 | 15 | 2 | 3 | 9 | | | | | |
| 13 | 27 | 37 | 14 | 13 | 13 | 31 | 16 | 18 | 2 | 53 | | | | | |
| 14 | 27 | 44 | 14 | 8 | 14 | 16 | 17 | 24 | 2 | 34 | | | | | |
| 15 | 27 | 51 | 14 | 4 | 15 | 2 | 18 | 35 | 2 | 11 | | | | | |
| 16 | 27 | 58 | 13 | 59 | 16 | 47 | 19 | 46 | 1 | 45 | | | | | |
| 17 | 28 | 5 | 13 | 55 | 16 | 29 | 20 | 57 | 1 | 16 | | | | | |
| 18 | 28 | 12 | 13 | 51 | 17 | 18 | 22 | 8 | 0 | 45 | | | | | |
| 19 | 28 | 19 | 13 | 47 | 18 | 4 | 23 | 19 | 0 | 15 | | | | | |
| 20 | 28 | 26 | 13 | 43 | 18 | 49 | 24 | 30 | 29 | 8 | 36 | | | | |
| 21 | 28 | 33 | 13 | 40 | 19 | 35 | 25 | 41 | 29 | | | | | | |
| 22 | 28 | 40 | 13 | 36 | 20 | 20 | 26 | 52 | 28 | 30 | | | | | |
| 23 | 28 | 47 | 13 | 34 | 21 | 6 | 28 | 3 | 27 | 56 | | | | | |
| 24 | 28 | 54 | 13 | 30 | 21 | 51 | 29 | 15 | 27 | 23 | | | | | |
| 25 | 29 | 1 | 13 | 27 | 22 | 36 | 0 | 26 | 26 | 53 | | | | | |
| 26 | 29 | 7 | 13 | 24 | 23 | 21 | 1 | 38 | 26 | 21 | | | | | |
| 27 | 29 | 14 | 13 | 22 | 24 | 5 | 2 | 49 | 25 | 51 | | | | | |
| 28 | 29 | 20 | 13 | 20 | 24 | 51 | 4 | 1 | 25 | 3 | | | | | |
| 29 | 29 | 27 | 13 | 18 | 25 | 36 | 5 | 12 | 25 | 1 | | | | | |
| 30 | 29 | 33 | 13 | 16 | 26 | 21 | 6 | 24 | 25 | | | | | | |
| 31 | 29 | 40 | 13 | 14 | 27 | 6 | 7 | 35 | 24 | 5 | | | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 15 | 47 | 0 30 | 11 N 54 | 2 18 | 9 N 15 | 1 N 28 | 3 S 53 |
| 2 | 15 | 47 | 0 31 | 11 57 | 2 19 | 9 11 | 1 28 | 3 53 |
| 7 | 15 | 48 | 0 31 | 12 1 | 2 19 | 9 27 | 1 25 | 3 52 |
| 10 | 15 | 48 | 0 31 | 12 3 | 2 20 | 9 38 | 1 24 | 3 53 |
| 18 | 15 | 48 | 0 31 | 12 5 | 2 20 | 9 38 | 1 23 | 3 64 |
| 16 | 15 | 48 | 0 31 | 12 8 | 2 21 | 9 44 | 1 22 | 3 56 |
| 19 | 15 | 48 | 0 31 | 12 10 | 2 21 | 9 49 | 1 22 | 3 58 |
| 22 | 15 | 45 | 0 31 | 12 13 | 2 22 | 9 54 | 1 21 | 4 1 |
| 25 | 15 | 45 | 0 31 | 12 15 | 2 23 | 9 59 | 1 20 | 4 5 |
| 28 | 15 | 45 | 0 31 | 12 17 | 2 23 | 10 3 | 1 19 | 4 9 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 4 37 30 | 10 20 52 | 11 N 1 | 1 15 8 | 2 18 16 | 21 N 11 | 2 35 |
| 2 | M | 4 41 26 | 11 18 20 | 22 9 15 | 3 1 5 | 21 32 | 2 36 | |
| 3 | Tu | 4 45 28 | 12 15 47 | 22 17 29 | 5 0 N 10 | 20 31 | 2 41 | |
| 4 | W | 4 49 19 | 13 13 13 | 22 13 2 | 13 2 18 | 1 18 14 | 2 44 | |
| 5 | Th | 4 53 16 | 14 10 38 | 22 31 27 | 23 2 36 | 14 50 | 2 47 | |
| 6 | F | 4 57 12 | 15 8 22 | 22 38 11 | 35 3 37 | 10 34 | 2 50 | |
| 7 | S | 5 1 9 | 16 5 24 | 22 44 25 | 45 4 25 | 5 45 | 2 52 | |
| 8 | S | 5 5 5 | 17 2 45 | 22 50 9 | 52 4 56 | 0 38 | 2 55 | |
| 9 | M | 5 9 2 | 18 0 6 | 22 55 23 | 55 5 10 | 4 29 | 2 58 | |
| 10 | Tu | 5 12 59 | 18 57 25 | 23 0 7 | 50 5 5 | 9 19 | 3 0 | |
| 11 | | | 19 54 44 | 23 4 21 | 35 4 42 | 13 38 | 3 3 | |
| 12 | | | 20 52 1 | 23 9 5 | 8 4 17 | 10 3 5 | | |
| 13 | | | 21 49 18 | 23 12 18 | 25 3 13 | 19 44 | 3 8 | |
| 14 | | | 22 46 35 | 23 16 1 | 25 2 13 | 21 14 | 3 10 | |
| 15 | | | 23 43 50 | 23 19 14 | 8 1 8 | 21 85 | 3 13 | |
| 16 | 1 | | 24 41 5 | 23 21 26 | 35 0 0 | 20 51 | 3 16 | |
| 17 | 1 | | 25 38 20 | 23 23 8 | 48 1 8 | 19 8 | 3 18 | |
| 18 | 1 | | 26 35 34 | 23 25 20 | 50 2 9 | 16 36 | 3 20 | |
| 19 | 1 | | 27 32 49 | 23 26 2 | 44 3 5 | 13 23 | 3 23 | |
| 20 | | | 28 30 3 | 23 27 14 | 34 3 53 | 9 40 | 3 25 | |
| 21 | S | 5 56 21 | 29 27 17 | 23 27 26 | 27 4 32 | 5 34 | 3 27 | |
| 22 | S | 6 0 17 | 0 24 31 | 23 27 8 | 25 4 58 | 1 14 | 3 29 | |
| 23 | M | 6 4 14 | 1 21 44 | 23 27 20 | 35 5 13 | 3 N 13 | 3 32 | |
| 24 | Tu | 6 8 10 | 2 18 58 | 23 26 3 | 0 5 12 | 7 38 | 3 34 | |
| 25 | W | 6 12 7 | 3 16 12 | 23 25 15 | 44 4 57 | 11 40 | 3 36 | |
| 26 | Th | 6 16 3 | 4 13 25 | 23 23 28 | 49 4 26 | 15 35 | 3 38 | |
| 27 | F | 6 20 0 | 5 10 39 | 23 21 12 | 16 3 40 | 18 39 | 3 40 | |
| 28 | S | 6 23 57 | 6 7 52 | 23 19 26 | 4 2 40 | 20 44 | 3 43 | |
| 29 | | 6 27 53 | 7 5 6 | 23 16 10 | 5 1 29 | 21 36 | 3 44 | |
| 30 | M | 6 31 50 | 8 2 19 | 23 13 24 | 30 0 11 | 21 4 | 3 46 | |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 18 1 | 9 N46 | 18 48 | 12 N44 | 8 45 | 15 N21 | 28 50 |
| 4 | 0 59 | 10 35 | 1 46 | 13 53 | 3 59 | 15 9 | 28 41 |
| 7 | 0 58 | 11 23 | 1 42 | 15 0 | 4 8 | 15 16 | 28 31 |
| 10 | 0 56 | 12 9 | 1 38 | 16 4 | 3 58 | 15 41 | 28 22 |
| 13 | 0 55 | 12 54 | 1 34 | 17 4 | 3 44 | 16 21 | 28 12 |
| 16 | 0 53 | 13 39 | 1 29 | 18 1 | 3 25 | 17 13 | 28 3 |
| 19 | 0 51 | 14 21 | 1 23 | 18 53 | 3 0 | 18 14 | 27 53 |
| 22 | 0 49 | 15 3 | 1 17 | 19 42 | 2 29 | 19 21 | 27 44 |
| 25 | 0 48 | 15 43 | 1 10 | 20 26 | 1 56 | 20 29 | 27 34 |
| 28 | 0 46 | 16 22 | 1 4 | 21 5 | 1 19 | 21 36 | 27 25 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☽ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 29 46 | 13 12 | 27 50 | 8 47 | 24 47 | | | | * | * | | * | | |
| 2 | 29 53 | 13 11 | 28 11 | 9 59 | 24 44 | | | | | | ☐ | * | | |
| 3 | 29 59 | 13 10 | 29 20 | 11 11 | 24 46 | | | | ☐ | ☐ | | ☐ | * | |
| 4 | 0 5 | 13 9 | 0 4 | 12 22 | 24 54 | ☉ Δ ♈ | * | | Δ | Δ | * | Δ | ☐ | ☐ |
| 5 | 0 11 | 13 8 | 0 49 | 13 34 | 25 4 | | | | Δ | Δ | | Δ | | ☐ |
| 6 | 0 17 | 13 7 | 1 34 | 14 45 | 25 21 | ☉ ∠ ♈ | | ☐ | | | | | Δ | |
| 7 | 0 23 | 13 6 | 2 18 | 15 57 | 25 40 | | | | | | | | | Δ |
| 8 | 0 29 | 13 6 | 3 3 | 17 9 | 26 5 | ☽ ☉ ♈ | | | | | ♈ | | | |
| 9 | 0 35 | 13 5 | 3 47 | 18 21 | 26 34 | | | Δ | | ♈ | | | | |
| 10 | 0 41 | 13 5 | 4 32 | 19 33 | 27 7 | | | | ♈ | ♈ | | ♈ | | |
| 11 | 0 47 | 13 5 | 5 16 | 20 45 | 27 44 | | | | | | | | ♈ | ♈ |
| 12 | 0 53 | 13 6 | 6 0 | 21 56 | 28 28 | | | | | | | | | |
| 13 | 0 59 | 13 6 | 6 44 | 23 8 | 29 12 | ☉ ∠ ♈ | ♈ | | | | * | | | |
| 14 | 1 5 | 13 7 | 7 28 | 24 20 | 0 1 | | | | Δ | Δ | | | | |
| 15 | 1 10 | 13 8 | 8 12 | 25 32 | 0 54 | | | | | | ☐ | Δ | | |
| 16 | 1 16 | 13 9 | 8 56 | 26 44 | 1 52 | | | | | | | | Δ | Δ |
| 17 | 1 21 | 13 10 | 9 40 | 27 56 | 2 52 | ♀ ☐ ♈ | | | | | | | | |
| 18 | 1 27 | 13 11 | 10 24 | 29 8 | 3 57 | | | | | | | | | |
| 19 | 1 32 | 13 11 | 8 0 | 11 20 | 5 5 | | | | | | | | ☐ | ☐ |
| 20 | 1 38 | 13 11 | 52 | 1 32 | 6 17 | | | | | | | | | |
| 21 | 1 43 | 13 12 | 35 | 2 44 | 7 33 | | | ☐ | | | | | | |
| 22 | 1 48 | 13 13 | 19 | 3 57 | 8 53 | | | | | | ♈ | | ☐ | * |
| 23 | 1 53 | 13 14 | 2 | 5 9 | 10 16 | | | | | | | | | |
| 24 | 1 58 | 13 14 | 46 | 6 21 | 11 40 | ☉ * ♈ | * | ♈ | ♈ | | | | | |
| 25 | 2 3 | 13 15 | 39 | 7 34 | 13 10 | ☉ * ♈ | | | | | | ♈ | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Δ | ♈ | ♈ |
| | | | | | | | | | * | | ☐ | | | |
| | | | | | | | | | | | * | | | |

| 14 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1851. | |
|-----------------|----------|-----------------------------------|-----------|------------|-------------|------------|-----------|--------------|------------|------|---|--------|--|
| JULY XXXI DAYS. | | | | | | | | | | | | | |
| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | |
| 1 | 15 | 45 | 0 8 31 | 12 N 19 | 2 S 24 | 10 N 7 | 1 N 19 | 4 S 13 | | | | | |
| 4 | 15 | 45 | 0 31 | 12 20 | 2 25 | 10 10 | 1 18 | 4 19 | | | | | |
| 7 | 15 | 45 | 0 31 | 12 22 | 2 25 | 10 14 | 1 18 | 4 24 | | | | | |
| 10 | 15 | 45 | 0 31 | 12 24 | 2 26 | 10 17 | 1 17 | 4 31 | | | | | |
| 18 | 15 | 45 | 0 31 | 12 25 | 2 27 | 10 20 | 1 16 | 4 38 | | | | | |
| 16 | 15 | 46 | 0 31 | 12 26 | 2 27 | 10 23 | 1 15 | 4 45 | | | | | |
| 19 | 15 | 46 | 0 31 | 12 27 | 2 28 | 10 25 | 1 14 | 4 53 | | | | | |
| 22 | 15 | 46 | 0 31 | 12 28 | 2 29 | 10 27 | 1 13 | 5 1 | | | | | |
| 25 | 15 | 46 | 0 31 | 12 29 | 2 30 | 10 29 | 1 13 | 5 10 | | | | | |
| 28 | 15 | 47 | 0 31 | 12 30 | 2 30 | 10 30 | 1 12 | 5 19 | | | | | |
| 31 | 15 | 47 | 0 31 | 12 30 | 2 30 | 10 32 | 1 11 | 5 29 | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. | | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | " | |
| 1 | Tu | 6 | 35 | 46 | 8 59 32 | 23 N 9 | 8 59 | 1 N 9 | 19 N 8 | 3 48 | | | |
| 2 | W | 6 | 39 | 43 | 9 56 45 | 23 5 | 23 32 | 2 24 | 15 57 | 3 50 | | | |
| 3 | Th | 6 | 43 | 39 | 10 53 58 | 23 1 | 8 2 | 3 30 | 11 49 | 3 52 | | | |
| 4 | F | 6 | 47 | 36 | 11 51 10 | 22 56 | 22 27 | 4 22 | 7 1 | 3 54 | | | |
| 5 | S | 6 | 51 | 32 | 12 48 22 | 22 50 | 6 42 | 4 58 | 1 54 | 3 56 | | | |
| 6 | S | 6 | 55 | 29 | 13 45 34 | 22 45 | 20 45 | 5 15 | 3 8 15 | 3 58 | | | |
| 7 | M | 6 | 59 | 26 | 14 42 46 | 22 39 | 4 36 | 5 13 | 8 8 | 4 0 | | | |
| 8 | Tu | 7 | 3 | 22 | 15 39 58 | 22 32 | 18 12 | 4 54 | 12 33 | 4 1 | | | |
| 9 | W | 7 | 7 | 19 | 16 37 9 | 22 25 | 1 34 | 4 19 | 16 15 | 4 3 | | | |
| 10 | Th | 7 | 11 | 15 | 17 34 21 | 22 18 | 14 14 | 3 31 | 19 5 | 4 4 | | | |
| 11 | F | 7 | 15 | 12 | 18 31 32 | 22 11 | 27 35 | 2 33 | 20 53 | 4 6 | | | |
| 12 | S | 7 | 19 | 8 | 19 28 44 | 22 3 | 10 15 | 1 28 | 21 35 | 4 7 | | | |
| 13 | S | 7 | 23 | 5 | 20 25 56 | 21 54 | 22 42 | 0 21 | 21 12 | 4 8 | | | |
| 14 | M | 7 | 27 | 1 | 21 23 8 | 21 45 | 4 57 | 0 8 | 47 19 | 4 9 | | | |
| 15 | Tu | 7 | 30 | 58 | 22 20 21 | 21 36 | 17 3 | 1 52 | 17 31 | 4 10 | | | |
| 16 | W | 7 | 34 | 55 | 23 17 34 | 21 27 | 29 0 | 2 51 | 14 30 | 4 11 | | | |
| 17 | Th | 7 | 38 | 51 | 24 14 48 | 21 17 | 10 52 | 3 42 | 10 55 | 4 12 | | | |
| 18 | F | 7 | 42 | 48 | 25 12 3 | 21 7 | 22 43 | 4 24 | 6 56 | 4 13 | | | |
| 19 | S | 7 | 46 | 44 | 26 9 18 | 20 56 | 4 35 | 4 55 | 2 41 | 4 14 | | | |
| 20 | S | 7 | 50 | 41 | 27 6 34 | 20 45 | 16 33 | 5 13 | 1 N 42 | 4 15 | | | |
| 21 | M | 7 | 54 | 37 | 28 3 51 | 20 34 | 28 42 | 5 17 | 6 5 | 4 16 | | | |
| 22 | Tu | 7 | 58 | 34 | 29 1 9 | 20 22 | 11 5 | 5 7 | 10 18 | 4 17 | | | |
| 23 | W | 8 | 2 | 30 | 29 58 27 | 20 10 | 23 48 | 4 42 | 14 11 | 4 18 | | | |
| 24 | Th | 8 | 6 | 27 | 0 55 47 | 19 58 | 6 53 | 4 2 | 17 30 | 4 19 | | | |
| 25 | F | 8 | 10 | 24 | 1 53 7 | 19 45 | 20 22 | 3 7 | 20 0 | 4 20 | | | |
| 26 | S | 8 | 14 | 20 | 2 50 29 | 19 32 | 4 17 | 2 0 | 21 23 | 4 20 | | | |
| 27 | S | 8 | 18 | 17 | 3 47 51 | 19 19 | 18 35 | 0 44 | 21 27 | 4 21 | | | |
| 28 | M | 8 | 22 | 13 | 4 45 14 | 19 5 | 3 13 | 0 N 37 | 20 4 | 4 21 | | | |
| 29 | Tu | 8 | 26 | 10 | 5 42 38 | 18 51 | 18 4 | 1 57 | 17 17 | 4 22 | | | |
| 30 | W | 8 | 30 | 6 | 6 40 3 | 18 37 | 3 1 | 3 9 | 13 20 | 4 22 | | | |
| 31 | Th | 8 | 34 | 3 | 7 37 28 | 18 23 | 17 56 | 4 8 | 8 35 | 4 23 | | | |

1851.]

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 08 44 | 16 N 59 | 08 57 | 21 N 39 | 08 44 | 23 N 34 | 27 15 |
| 4 | 0 42 | 17 35 | 0 50 | 22 8 | 0 8 | 23 20 | 27 6 |
| 7 | 0 40 | 18 9 | 0 43 | 22 31 | 0 N 26 | 23 48 | 26 56 |
| 10 | 0 38 | 18 41 | 0 35 | 22 49 | 0 55 | 23 54 | 26 47 |
| 13 | 0 36 | 19 12 | 0 27 | 23 1 | 1 19 | 23 35 | 26 37 |
| 16 | 0 33 | 19 41 | 0 19 | 23 7 | 1 35 | | 26 28 |
| 19 | 0 31 | 20 9 | 0 11 | 23 7 | 1 44 | | 26 18 |
| 22 | 0 29 | 20 35 | 0 4 | 23 0 | 1 48 | | 26 9 |
| 25 | 0 27 | 20 59 | 0 N 4 | 22 43 | 1 45 | | 25 59 |
| 28 | 0 24 | 21 21 | 0 11 | 22 30 | 1 36 | | 25 49 |
| 31 | 0 22 | 21 42 | 0 20 | 22 6 | 1 24 | | 25 40 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 28 31 | 13 44 | 19 47 | 14 48 | 23 14 | | | | ☐ | ☐ | ☐ | * | * |
| 2 | 2 36 | 18 48 | 20 30 | 16 0 | 25 6 | | | * | ☐ | ☐ | | | * |
| 3 | 2 40 | 13 52 | 21 13 | 17 13 | 27 0 | ☉ P ♀ | | * | ☐ | ☐ | | | |
| 4 | 2 44 | 13 57 | 21 56 | 18 25 | 28 57 | ☿ / ♀ | | | | | ☐ | ☐ | ☐ |
| 5 | 2 49 | 14 1 | 22 38 | 19 98 | 0 57 | | | ☐ | | | | | ☐ |
| 6 | 2 53 | 14 5 | 23 21 | 20 51 | 2 57 | ☉ ☐ ♀ | | | ♂ | ♂ | ♂ | | ☐ |
| 7 | 2 57 | 14 10 | 24 3 | 22 4 | 5 0 | | | ☐ | ♂ | ♂ | | | ☐ |
| 8 | 3 1 | 14 14 | 24 46 | 23 16 | 7 6 | ☉ P ♀ | | ☐ | | | ♂ | | |
| 9 | 3 4 | 14 19 | 25 28 | 24 29 | 9 12 | | | | | | ♂ | | |
| 10 | 3 8 | 14 24 | 26 11 | 25 41 | 11 19 | | | | | | * | | |
| 11 | 3 12 | 14 29 | 26 53 | 26 54 | 13 29 | ☐ ☐ ♀ | | | ☐ | ☐ | | ♂ | ♂ |
| 12 | 3 15 | 14 35 | 27 35 | 28 6 | 15 36 | | | ♂ | ☐ | ☐ | ☐ | ☐ | ♂ |
| 13 | 3 19 | 14 41 | 28 17 | 29 19 | 17 45 | | | ♂ | ☐ | ☐ | ☐ | ☐ | |
| 14 | 3 22 | 14 46 | 28 59 | 0 32 | 19 55 | | | | ☐ | ☐ | ☐ | | |
| 15 | 3 25 | 14 51 | 29 41 | 1 45 | 22 8 | ☉ ☐ ♀ | | | | | ☐ | | |
| 16 | 3 28 | 14 57 | 0 23 | 2 58 | 24 11 | ♂ * ♀ | | | * | * | | ☐ | ☐ |
| 17 | 3 31 | 15 3 | 4 4 | 11 26 | 20 20 | ☿ * ♀ | | | | | | ☐ | ☐ |
| 18 | 3 34 | 15 9 | 1 46 | 5 24 | 28 25 | | | ☐ | | | | * | ☐ |
| 19 | 3 37 | 15 16 | 2 27 | 6 37 | 0 29 | | | | | | * | ☐ | ☐ |
| 20 | 3 40 | 15 23 | 3 9 | 7 50 | 2 35 | ♂ * ♀ | | | | | ♂ | | |
| 21 | 3 43 | 15 30 | 3 50 | 9 3 | 4 37 | ☉ P ♂ | | ☐ | ☐ | ☐ | | | |
| 22 | 3 46 | 15 37 | 4 32 | 10 16 | 6 37 | ☉ P ♀ | | | | | | * | ☐ |
| 23 | 3 48 | 15 44 | 5 13 | 11 29 | 8 38 | | | | | | | | |
| 24 | 3 51 | 15 51 | 5 54 | 12 42 | 10 35 | | | * | | | ♂ | | ☐ |
| 25 | 3 53 | 15 58 | 6 35 | 13 56 | 12 32 | | | | | | ☐ | | |
| 26 | 3 56 | 16 5 | 7 16 | 15 9 | 14 27 | | | | * | * | | | |
| 27 | 3 58 | 16 12 | 7 57 | 16 22 | 16 19 | ☉ ☐ ♀ | | ☐ | ☐ | ☐ | | ♂ | |
| 28 | 4 0 | 16 19 | 8 38 | 17 36 | 18 9 | ☉ ☐ ☿ | | ☐ | ☐ | ☐ | * | | |
| 29 | 4 2 | 16 26 | 9 18 | 18 49 | 20 1 | | | | ☐ | ☐ | | | ♂ |
| 30 | 4 4 | 16 34 | 9 59 | 20 3 | 21 49 | | | | ☐ | ☐ | | ☐ | |
| 31 | 4 6 | 16 42 | 10 39 | 21 16 | 23 34 | | | | | | | * | |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 S 22 | 21 N 49 | 0 N 22 | 21 N 56 | 1 N 19 | 14 N 20 | 25 37 |
| 4 | 0 19 | 22 6 | 0 29 | 21 24 | 1 1 | 13 17 | 25 27 |
| 7 | 0 17 | 22 23 | 0 35 | 20 47 | 0 40 | 10 13 | 25 17 |
| 10 | 0 14 | 22 38 | 0 42 | 20 4 | 0 17 | 8 9 | 25 8 |
| 13 | 0 11 | 22 51 | 0 48 | 19 16 | 0 S 9 | 6 6 | 24 58 |
| 16 | 0 8 | 23 2 | 0 54 | 18 23 | 0 36 | 4 5 | 24 49 |
| 19 | 0 5 | 23 12 | 1 0 | 17 25 | 1 4 | 2 9 | 24 39 |
| 22 | 0 2 | 23 20 | 1 5 | 16 23 | 1 33 | 0 19 | 24 30 |
| 25 | 0 N 1 | 23 26 | 1 9 | 15 16 | 2 2 | 1 S 24 | 24 20 |
| 28 | 0 4 | 23 31 | 1 13 | 14 6 | 2 31 | 2 58 | 24 11 |
| 31 | 0 7 | 23 34 | 1 16 | 12 52 | 2 59 | 4 20 | 24 1 |

| D
M | ☿ | | ♈ | | ♊ | | ♋ | | ♌ | | ♍ | | ♎ | | ♏ | | Mutual
Aspts. | Lunar Aspects. | | | | | | | | |
|--------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|---|---|------------------|----------------|---|---|---|---|---|---|---|---|
| | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | ☉ | ☽ | | ☿ | ♈ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | |
| 1 | 4 | 8 | 7 | 16 | Δ | 51 | 11 | 11 | 20 | 28 | 29 | 25 | Ω | 21 | | | | * | | | | | | | | |
| 2 | 4 | | 9 | 16 | | 59 | 12 | | 0 | 23 | 43 | 27 | | 2 | | | | | | | ♂ | Δ | | | | |
| 3 | 4 | | 10 | 17 | | 7 | 12 | | 41 | 24 | 56 | 28 | | 44 | | | | | ♂ | ♂ | | | | □ | * | |
| 4 | 4 | | 12 | 17 | | 15 | 12 | | 21 | 26 | 10 | 0 | ☾ | 25 | | | | □ | | | | | | | | |
| 5 | 4 | | 13 | 17 | | 24 | 14 | | 1 | 27 | 23 | 2 | | 2 | | | | | | | | | | Δ | □ | |
| 6 | 4 | | 14 | 17 | | 32 | 14 | | 41 | 28 | 37 | 3 | 39 | | ☾ | Δ | ☿ | | | | | | | | | |
| 7 | 4 | | 15 | 17 | | 41 | 15 | | 21 | 29 | 50 | 5 | 15 | | | | | | | | | | | | | |
| 8 | 4 | | 16 | 17 | | 50 | 16 | | 1 | Ω | 4 | 6 | 47 | | | | | | | | | | | | | Δ |
| 9 | 4 | | 16 | 17 | | 59 | 18 | | 41 | 2 | 18 | 8 | 19 | | | | | | | | | | | | | |
| 10 | 4 | | 17 | 18 | | 8 | 17 | | 20 | 3 | 32 | 9 | 51 | | ☉ | * | ♂ | | | | | | | ♂ | | |
| 11 | 4 | | 17 | 18 | | 17 | 18 | | 0 | 4 | 46 | 11 | 19 | | ☉ | * | ♂ | | | | | | | | | |
| 12 | 4 | | 18 | 18 | | 26 | 18 | | 39 | 5 | 59 | 12 | 45 | | ♂ | Δ | ♂ | | | | | | | | | |
| 13 | 4 | | 18 | 18 | | 36 | 19 | | 18 | 7 | 13 | 14 | 12 | | | | | | | | | | | | | |
| 14 | 4 | | 19 | 18 | | 45 | 19 | | 57 | 8 | 27 | 15 | 34 | | | | | | | | | | | | | ♂ |
| 15 | 4 | | 19 | 18 | | 55 | 20 | | 36 | 9 | 40 | 16 | 57 | | | | | | | | | | | | | |
| 16 | 4 | | 19 | 19 | | 4 | 21 | | 15 | 10 | 54 | 18 | 17 | | | | | | | | | | | Δ | | |
| 17 | 4 | | 19 | 19 | | 14 | 21 | | 54 | 12 | 8 | 19 | 35 | | | | | | | | | | | | | |
| 18 | 4 | R | 19 | 19 | | 24 | 22 | | 32 | 13 | 22 | 20 | 51 | | | | | | | | | | | | | |
| 19 | 4 | | 19 | 19 | | 34 | 23 | | 11 | 14 | 36 | 22 | 6 | | | | | | | | | | | □ | Δ | |
| 20 | 4 | | 19 | 19 | | 44 | 23 | | 49 | 15 | 50 | 23 | 18 | | | | | | | | | | | | | |
| 21 | 4 | | 18 | 19 | | 54 | 24 | | 28 | 17 | 4 | 24 | 30 | | ♂ | □ | ☿ | | | | | Δ | | * | | |
| 22 | 4 | | 18 | 20 | | 4 | 25 | | 6 | 18 | 18 | 25 | 38 | | | ■ | * | ■ | | | | Δ | | ♂ | | □ |
| 23 | 4 | | 17 | 20 | | 15 | 25 | | 44 | 19 | 32 | 26 | 45 | | | | | | | | | | | | | |
| 24 | 4 | | 16 | 20 | | 25 | 26 | | 22 | 20 | 46 | 27 | 49 | | ♂ | * | ♀ | | | | | □ | | | | * |
| 25 | 4 | | 16 | 20 | | 36 | 27 | | 0 | 22 | 1 | 28 | 50 | | | | | □ | □ | | | | | | | |
| 26 | 4 | | 14 | 20 | | 46 | 27 | | 38 | 23 | 15 | 29 | 50 | | | | | | | | | | | | | |
| 27 | 4 | | 13 | 20 | | 57 | 28 | | 16 | 24 | 29 | 0 | Δ | 46 | | | | ♂ | | Δ | Δ | | * | * | ♂ | |
| 28 | 4 | | 12 | 21 | | 7 | 28 | | 54 | 25 | 44 | 1 | 40 | | ☉ | Δ | ☾ | | | | | | | □ | | ♂ |
| 29 | 4 | | 11 | 21 | | 18 | 29 | | 32 | 26 | 58 | 2 | 30 | | | | | | | | | | | | | |
| 30 | 4 | | 10 | 21 | | 29 | 0 | ☾ | 9 | 28 | 12 | 3 | 18 | | | | | | | | | | | ♂ | Δ | * |
| 31 | 4 | | 9 | 21 | | 40 | 0 | | 46 | 29 | 27 | 4 | 1 | | | | | * | ♂ | ♂ | | | | | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 32 | 12 N 26 | 2 S 40 | 10 N 24 | 1 N 6 | 7 S 30 |
| 4 | 15 | 54 | 0 32 | 12 25 | 2 40 | 10 22 | 1 6 | 7 43 |
| 7 | 15 | 54 | 0 32 | 12 24 | 2 41 | 10 19 | 1 5 | 7 56 |
| 10 | 15 | 55 | 0 32 | 12 23 | 2 41 | 10 16 | 1 5 | 8 9 |
| 13 | 15 | 56 | 0 32 | 12 21 | 2 42 | 10 13 | 1 4 | 8 23 |
| 16 | 15 | 56 | 0 32 | 12 19 | 2 42 | 10 10 | 1 4 | 8 36 |
| 19 | 15 | 57 | 0 32 | 12 17 | 2 43 | 10 6 | 1 3 | 8 50 |
| 22 | 15 | 58 | 0 32 | 12 15 | 2 43 | 10 2 | 1 3 | 9 3 |
| 25 | 15 | 59 | 0 32 | 12 14 | 2 44 | 9 58 | 1 3 | 9 17 |
| 28 | 16 | 0 | 0 32 | 12 12 | 2 44 | 9 54 | 1 3 | 9 31 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|----|----|----------------------|-------------|--------------------|-----------|-------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 10 | 40 | 13 | 8 ^m 24 49 | 8 N 25 | 24 ^m 59 | 4 N 30 | 14 S 39 | 4 8 14 |
| 2 | Tu | 10 | 44 | 9 | 9 22 57 | 8 3 | 8 ^f 25 | 3 48 | 17 59 | 4 8 13 |
| 3 | W | 10 | 48 | 6 | 10 21 7 | 7 42 | 21 27 | 2 54 | 20 17 | 4 12 |
| 4 | Th | 10 | 52 | 2 | 11 19 18 | 7 19 | 4 ^w 8 | 1 54 | 21 30 | 4 11 |
| 5 | F | 10 | 55 | 59 | 12 17 31 | 6 57 | 16 32 | 0 49 | 21 37 | 4 10 |
| 6 | S | 10 | 59 | 55 | 13 15 45 | 6 35 | 23 42 | 0 S 17 | 20 42 | 4 8 |
| 7 | S | 11 | 3 | 52 | 14 14 0 | 6 13 | 10 ^m 44 | 1 21 | 18 51 | 4 7 |
| 8 | M | 11 | 7 | 49 | 15 12 18 | 5 50 | 22 39 | 2 20 | 16 11 | 4 5 |
| 9 | Tu | 11 | 11 | 45 | 16 10 37 | 5 27 | 4 ^x 31 | 3 14 | 12 52 | 4 4 |
| 10 | W | 11 | 15 | 42 | 17 8 57 | 5 5 | 16 22 | 3 58 | 9 2 | 4 2 |
| 11 | Th | 11 | 19 | 38 | 18 7 20 | 4 42 | 28 13 | 4 32 | 4 52 | 4 1 |
| 12 | F | 11 | 23 | 35 | 19 5 44 | 4 19 | 10 ^r 7 | 4 55 | 0 31 | 3 59 |
| 13 | S | 11 | 27 | 31 | 20 4 11 | 3 56 | 22 4 | 5 4 | 3 N 53 | 3 58 |
| 14 | S | 11 | 31 | 28 | 21 2 39 | 3 33 | 4 ⁸ 8 | 5 1 | 8 11 | 3 56 |
| 15 | M | 11 | 35 | 24 | 22 1 10 | 3 10 | 16 19 | 4 43 | 12 12 | 3 55 |
| 16 | Tu | 11 | 39 | 21 | 22 59 42 | 2 47 | 28 41 | 4 13 | 15 46 | 3 53 |
| 17 | W | 11 | 43 | 18 | 23 58 17 | 2 24 | 11 ^π 18 | 3 29 | 18 42 | 3 51 |
| 18 | Th | 11 | 47 | 14 | 24 56 54 | 2 1 | 24 12 | 2 34 | 20 46 | 3 49 |
| 19 | F | 11 | 51 | 11 | 25 55 34 | 1 37 | 7 [☿] 28 | 1 28 | 21 46 | 3 47 |
| 20 | S | 11 | 55 | 7 | 26 54 16 | 1 14 | 21 9 | 0 17 | 21 30 | 3 45 |
| 21 | S | 11 | 59 | 4 | 27 52 59 | 0 51 | 5 [♊] 17 | 0 N 58 | 19 54 | 3 44 |
| 22 | M | 12 | 3 | 0 | 28 51 45 | 0 27 | 19 50 | 2 11 | 16 57 | 3 42 |
| 23 | Tu | 12 | 6 | 57 | 29 50 34 | 0 4 | 4 ^m 46 | 3 17 | 12 50 | 3 40 |
| 24 | W | 12 | 10 | 53 | 0 [♈] 49 24 | 0 S 20 | 19 58 | 4 11 | 7 49 | 3 38 |
| 25 | Th | 12 | 14 | 50 | 1 48 16 | 0 43 | 5 [♈] 16 | 4 47 | 2 18 | 3 36 |
| 26 | F | 12 | 18 | 46 | 2 47 11 | 1 7 | 20 28 | 5 2 | 3 S 20 | 3 34 |
| 27 | S | 12 | 22 | 43 | 3 46 7 | 1 30 | 5 ^m 24 | 4 56 | 8 40 | 3 32 |
| 28 | S | 12 | 26 | 40 | 4 45 6 | 1 53 | 19 56 | 4 31 | 13 23 | 3 30 |
| 29 | M | 12 | 30 | 36 | 5 44 6 | 2 17 | 3 ^f 59 | 3 51 | 17 11 | 3 28 |
| 30 | Tu | 12 | 34 | 33 | 6 43 8 | 2 40 | 17 31 | 2 58 | 19 55 | 3 26 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 7 | 23 N 36 | 1 N 17 | 12 N 27 | 3 S 7 | 4 S 44 | 23 58 |
| 4 | 0 11 | 23 36 | 1 20 | 11 9 | 3 32 | 5 45 | 23 49 |
| 7 | 0 14 | 23 36 | 1 23 | 9 48 | 3 51 | 6 24 | 23 39 |
| 10 | 0 18 | 23 36 | 1 23 | 8 25 | 4 4 | 6 37 | 23 29 |
| 13 | 0 22 | 23 32 | 1 24 | 7 0 | 4 7 | 6 18 | 23 20 |
| 16 | 0 25 | 23 28 | 1 25 | 5 33 | 3 56 | 5 22 | 23 10 |
| 19 | 0 28 | 23 22 | 1 25 | 4 4 | 3 30 | 3 51 | 23 1 |
| 22 | 0 32 | 23 16 | 1 25 | 2 34 | 2 45 | 1 53 | 22 51 |
| 25 | 0 36 | 23 9 | 1 23 | 1 4 | 1 49 | 0 N 10 | 22 42 |
| 28 | 0 39 | 23 0 | 1 21 | 0 S 27 | 0 49 | 1 56 | 22 32 |

| D
M | ☿ | | ♈ | | ♉ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|---------|-------|-------|-------|-------|-------|--------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 4 5 7 | 21 50 | 1 23 | 0 40 | 4 42 | ♀ P ☿ | | | | | | | |
| 2 | 4 5 22 | 1 2 | 1 55 | 5 18 | ♂ * ♀ | | | | | | | | * |
| 3 | 4 4 22 | 12 2 | 3 10 | 5 51 | ☉ P ♈ | | | | | * | | | |
| 4 | 4 2 22 | 24 8 | 4 26 | 6 18 | ♈ Δ ♀ | | | Δ | Δ | | ♂ | Δ | □ |
| 5 | 4 0 22 | 35 3 | 5 39 | 6 42 | ☿ * ♂ | | | Δ | | | | | |
| 6 | 3 58 22 | 46 4 | 6 53 | 7 0 | | | | | | | | | |
| 7 | 3 56 22 | 58 5 | 7 7 | 7 18 | ☉ P ♉ | | | | | | | | |
| 8 | 3 53 23 | 9 5 | 9 22 | 7 19 | | | | | | | | | |
| 9 | 3 50 23 | 21 6 | 10 36 | 7 20 | | | | | | | | | |
| 10 | 3 48 23 | 33 6 | 11 51 | 7 15 | ♀ P ♈ | | | ♂ | | | | | |
| 11 | 3 45 23 | 44 7 | 13 5 | 7 4 | ♂ □ ♀ | | | | | | | | |
| 12 | 3 42 23 | 56 8 | 14 20 | 6 46 | ☉ □ ♈ | | | | | | | | |
| 13 | 3 40 24 | 8 8 | 15 35 | 6 20 | | | | | | | | | |
| 14 | 3 37 24 | 20 9 | 16 49 | 5 48 | | | | | | | | | |
| 15 | 3 35 24 | 32 9 | 18 4 | 5 10 | ♈ □ ♀ | | | | | | | | |
| 16 | 3 32 24 | 44 10 | 19 18 | 4 24 | ☿ □ ♀ | | | Δ | | | | | Δ |
| 17 | 3 29 24 | 56 10 | 20 33 | 3 38 | | | | | | | | | |
| 18 | 3 26 25 | 8 11 | 21 48 | 2 37 | | | | □ | * | * | Δ | ♂ | □ |
| 19 | 3 23 25 | 20 12 | 23 2 | 1 37 | | | | * | * | * | □ | * | □ |
| 20 | 3 20 25 | 32 12 | 24 17 | 0 33 | | | | * | | | □ | | |
| 21 | 3 18 25 | 44 13 | 25 32 | 29 28 | | | | | | | | | * |
| 22 | 3 12 25 | 56 13 | 26 46 | 23 | ☉ ♂ ♀ | | | | | * | | | |
| 23 | 3 9 26 | 8 14 | 25 28 | 1 27 | ♀ ♂ ♀ | | | Δ | Δ | | | | |
| 24 | 3 5 26 | 21 15 | 29 16 | 26 18 | ☉ P ♀ | | | | | | | | ♂ |
| 25 | 3 1 26 | 34 16 | 32 0 | 25 22 | ☉ P ♀ | | | ♂ | | | | ♂ | |
| 26 | 2 58 26 | 47 16 | 1 40 | 24 33 | | | | | | | ♂ | □ | |
| 27 | 2 54 27 | 0 16 | 3 1 | 23 50 | | | | | ♂ | ♂ | | | |
| 28 | 2 50 27 | 12 17 | 4 16 | 23 16 | | | | | | | | Δ | |
| 29 | 2 46 27 | 24 17 | 5 31 | 22 53 | | | | * | | | | * | |
| 30 | 2 42 27 | 37 18 | 6 46 | 22 38 | ☉ ♂ ♀ | | | | | | | | □ |

| 20 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1851. | |
|--------------------|-------------------|-----------------------------------|-----------|------------|-------------|------------|-----------|-------------|------------|------|---|--------|--|
| OCTOBER XXXI DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | |
| 1 | 16 | 1 | 08 32 | 12 N 9 | 28 45 | 9 N 49 | 1 N 2 | 9 S 44 | | | | | |
| 4 | 16 | 1 | 0 32 | 12 7 | 2 45 | 9 45 | 1 2 | 9 58 | | | | | |
| 7 | 16 | 2 | 0 32 | 12 5 | 2 45 | 9 40 | 1 2 | 10 12 | | | | | |
| 10 | 16 | 3 | 0 32 | 12 2 | 2 45 | 9 35 | 1 2 | 10 26 | | | | | |
| 13 | 16 | 4 | 0 32 | 12 0 | 2 46 | 9 30 | 1 1 | 10 40 | | | | | |
| 16 | 16 | 5 | 0 32 | 11 58 | 2 46 | 9 25 | 1 1 | 10 53 | | | | | |
| 19 | 16 | 5 | 0 32 | 11 55 | 2 46 | 9 20 | 1 1 | 11 7 | | | | | |
| 22 | 16 | 6 | 0 32 | 11 53 | 2 46 | 9 15 | 1 1 | 11 21 | | | | | |
| 25 | 16 | 7 | 0 32 | 11 50 | 2 46 | 9 10 | 1 1 | 11 34 | | | | | |
| 28 | 16 | 8 | 0 32 | 11 47 | 2 46 | 9 5 | 1 1 | 11 48 | | | | | |
| 31 | 16 | 9 | 0 32 | 11 45 | 2 46 | 9 0 | 1 1 | 12 1 | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. | | | | |
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | | | |
| 1 | W | 12 | 38 | 29 | 7 42 12 | 3 S 4 | 0 36 | 1 N 58 | 21 S 30 | 3 24 | | | |
| 2 | Th | 12 | 42 | 26 | 8 41 17 | 3 27 | 13 16 | 0 53 | 21 55 | 3 22 | | | |
| 3 | F | 12 | 46 | 22 | 9 40 24 | 3 50 | 25 37 | 0 S 12 | 21 14 | 3 20 | | | |
| 4 | S | 12 | 50 | 19 | 10 39 33 | 4 13 | 7 43 | 1 15 | 19 34 | 3 18 | | | |
| 5 | S | 12 | 54 | 15 | 11 38 44 | 4 37 | 19 39 | 2 15 | 17 4 | 3 16 | | | |
| 6 | M | 12 | 58 | 12 | 12 37 57 | 5 0 | 1 30 | 3 7 | 13 52 | 3 13 | | | |
| 7 | Tu | 13 | 2 | 9 | 13 37 11 | 5 23 | 13 20 | 3 52 | 10 7 | 3 11 | | | |
| 8 | W | 13 | 6 | 5 | 14 36 28 | 5 46 | 25 11 | 4 26 | 5 59 | 3 8 | | | |
| 9 | Th | 13 | 10 | 2 | 15 35 46 | 6 9 | 7 6 | 4 49 | 1 36 | 3 6 | | | |
| 10 | F | 13 | 13 | 58 | 16 35 6 | 6 31 | 19 6 | 4 59 | 2 N 52 | 3 3 | | | |
| 11 | S | 13 | 17 | 55 | 17 34 29 | 6 54 | 1 12 | 4 56 | 7 16 | 3 1 | | | |
| 12 | S | 13 | 21 | 51 | 18 33 53 | 7 17 | 13 25 | 4 39 | 11 26 | 2 58 | | | |
| 13 | M | 13 | 25 | 48 | 19 33 20 | 7 39 | 25 46 | 4 9 | 15 11 | 2 56 | | | |
| 14 | Tu | 13 | 29 | 44 | 20 32 49 | 8 2 | 8 17 | 3 27 | 18 18 | 2 53 | | | |
| 15 | W | 13 | 33 | 41 | 21 32 20 | 8 24 | 21 0 | 2 34 | 20 36 | 2 51 | | | |
| 16 | Th | 13 | 37 | 38 | 22 31 53 | 8 46 | 3 57 | 1 31 | 21 53 | 2 49 | | | |
| 17 | F | 13 | 41 | 34 | 23 31 29 | 9 9 | 17 11 | 0 23 | 21 59 | 2 46 | | | |
| 18 | S | 13 | 45 | 31 | 24 31 7 | 9 31 | 0 44 | 0 N 49 | 20 48 | 2 44 | | | |
| 19 | S | 13 | 49 | 27 | 25 30 47 | 9 52 | 14 39 | 1 59 | 18 21 | 2 42 | | | |
| 20 | M | 13 | 53 | 24 | 26 30 10 | 10 14 | 28 57 | 3 4 | 14 43 | 2 39 | | | |
| 21 | Tu | 13 | 57 | 20 | 27 30 15 | 10 36 | 13 36 | 3 58 | 10 7 | 2 37 | | | |
| 22 | W | 14 | 1 | 17 | 28 30 21 | 10 57 | 28 32 | 4 38 | 4 50 | 2 34 | | | |
| 23 | Th | 14 | 5 | 13 | 29 29 51 | 11 18 | 13 36 | 4 58 | 0 S 47 | 2 32 | | | |
| 24 | F | 14 | 9 | 10 | 0 29 42 | 11 38 | 8 39 | 4 58 | 6 22 | 2 30 | | | |
| 25 | S | 14 | 13 | 7 | 1 29 35 | 12 0 | 13 31 | 4 37 | 11 30 | 2 28 | | | |
| 26 | S | 14 | 17 | 3 | 2 29 31 | 12 21 | 28 4 | 3 59 | 15 52 | 2 25 | | | |
| 27 | M | 14 | 21 | 0 | 3 29 28 | 12 41 | 12 11 | 3 7 | 19 11 | 2 23 | | | |
| 28 | Tu | 14 | 24 | 56 | 4 29 26 | 13 22 | 25 49 | 2 6 | 21 18 | 2 20 | | | |
| 29 | W | 14 | 28 | 53 | 5 29 27 | 13 22 | 8 58 | 1 0 | 22 10 | 2 18 | | | |
| 30 | Th | 14 | 32 | 49 | 6 29 29 | 13 42 | 21 42 | 0 S 8 | 21 50 | 2 15 | | | |
| 31 | F | 14 | 36 | 46 | 7 29 33 | 14 1 | 4 5 | 1 13 | 20 26 | 2 13 | | | |

OCTOBER XXXI DAYS.

| D
M | Mars | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 43 | 22 N 51 | 1 N 18 | 18 59 | 0 N 8 | 3 N 4 | 22 23 |
| 4 | 0 47 | 22 41 | 1 15 | 3 30 | 0 54 | 3 26 | 22 13 |
| 7 | 0 51 | 22 30 | 1 11 | 5 0 | 1 27 | 3 3 | 22 4 |
| 10 | 0 55 | 22 19 | 1 8 | 6 30 | 1 48 | 2 2 | 21 54 |
| 13 | 1 0 | 22 7 | 1 3 | 7 58 | 1 59 | 0 33 | 21 45 |
| 16 | 1 4 | 21 55 | 0 58 | 9 25 | 2 0 | 18 16 | 21 35 |
| 19 | 1 9 | 21 48 | 0 53 | 10 50 | 1 54 | 3 17 | 21 26 |
| 22 | 1 14 | 21 30 | 0 47 | 12 12 | 1 43 | 5 23 | 21 16 |
| 25 | 1 19 | 21 17 | 0 41 | 13 33 | 1 29 | 7 30 | 21 7 |
| 28 | 1 24 | 21 5 | 0 35 | 14 50 | 1 12 | 9 36 | 20 57 |
| 31 | 1 29 | 20 53 | 0 28 | 16 3 | 0 53 | 11 38 | 20 47 |

| D
M | h | | ♄ | | ♅ | | ♀ | | ♆ | | Mutual
Aspts. |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | |
| 1 | 28 38 | 27 49 | 18 50 | 8 1 | 22 35 | ♄ P ♀ | | | | | |
| 2 | 28 34 | 28 21 | 19 23 | 9 16 | 22 41 | | | | | | |
| 3 | 28 30 | 28 14 | 19 55 | 10 31 | 22 58 | | | | | | |
| 4 | 28 26 | 28 27 | 20 27 | 11 46 | 23 25 | ♀ P ♀ | | | | | |
| 5 | 28 22 | 28 40 | 20 58 | 13 1 | 24 2 | | | | | | |
| 6 | 28 18 | 28 53 | 21 29 | 14 15 | 24 47 | | | | | | |
| 7 | 28 13 | 29 6 | 22 1 | 15 30 | 25 41 | ♄ P ♀ | | | | | |
| 8 | 28 9 | 29 18 | 22 32 | 16 45 | 26 41 | | | | | | |
| 9 | 28 4 | 29 31 | 23 3 | 18 0 | 27 50 | | | | | | |
| 10 | 1 59 | 29 44 | 23 33 | 19 15 | 29 3 | | | | | | |
| 11 | 1 55 | 29 57 | 24 3 | 20 30 | 0 22 | | | | | | |
| 12 | 1 50 | 0 10 | 24 83 | 21 45 | 1 46 | | | | | | |
| 13 | 1 45 | 0 23 | 25 4 | 23 0 | 3 11 | | | | | | |
| 14 | 1 41 | 0 36 | 25 34 | 24 15 | 4 42 | | | | | | |
| 15 | 1 36 | 0 49 | 26 4 | 25 30 | 6 16 | | | | | | |
| 16 | 1 31 | 1 2 | 26 33 | 26 45 | 7 50 | ♄ □ ♀ | | | | | |
| 17 | 1 26 | 1 16 | 27 2 | 28 0 | 9 26 | | | | | | |
| 18 | 1 21 | 1 28 | 27 30 | 29 15 | 11 6 | h ♀ ♀ | □ | □ | □ | ♄ | □ |
| 19 | 1 16 | 1 41 | 27 5 | 0 30 | 12 44 | | | | | | |
| 20 | 1 12 | 1 54 | 28 27 | 1 45 | 14 21 | h ♄ ♀ | * | Δ | * | * | * |
| 21 | 1 7 | 2 7 | 28 55 | 3 1 | 16 5 | h ♄ ♀ | | | | | |
| 22 | 1 2 | 2 20 | 29 23 | 4 16 | 17 46 | | | | | * | |
| 23 | 0 57 | 2 33 | 29 51 | 5 31 | 19 27 | h ♄ ♀ | | | | | |
| 24 | 0 52 | 2 46 | 0 18 | 6 46 | 21 9 | ♄ ♄ h | ♄ | ♄ | ♄ | ♄ | ♄ |
| 25 | 0 47 | 3 0 | 0 8 | 8 1 | 22 45 | h □ ♄ | | | | | |
| 26 | 0 43 | 3 13 | 1 11 | 9 16 | 24 30 | ♄ ♄ h | | | | Δ | |
| 27 | 0 38 | 3 26 | 1 37 | 10 32 | 26 12 | ♄ ♄ ♀ | | | | | |
| 28 | 0 33 | 3 39 | 1 3 | 11 47 | 27 50 | | | Δ | Δ | | * |
| 29 | 0 28 | 3 52 | 2 28 | 13 2 | 29 31 | h □ ♄ | * | | | * | * |
| 30 | 0 24 | 4 5 | 3 53 | 14 17 | 1 12 | h ♄ ♄ | | | | | |
| 31 | 0 19 | 4 19 | 4 15 | 16 32 | 2 50 | h ♄ ♄ | □ | □ | □ | ♄ | □ |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 32 | 11 N 44 | 2 S 46 | 8 N 59 | 1 N 0 | 12 S 6 |
| 4 | 16 | 9 | 0 32 | 11 42 | 2 45 | 8 54 | 1 0 | 12 19 |
| 7 | 16 | 10 | 0 32 | 11 39 | 2 45 | 8 50 | 1 0 | 12 32 |
| 10 | 16 | 11 | 0 32 | 11 37 | 2 45 | 8 45 | 1 0 | 12 45 |
| 13 | 16 | 12 | 0 32 | 11 34 | 2 44 | 8 41 | 1 0 | 12 57 |
| 16 | 16 | 12 | 0 32 | 11 32 | 2 44 | 8 37 | 1 0 | 13 10 |
| 19 | 16 | 13 | 0 32 | 11 30 | 2 44 | 8 33 | 1 0 | 13 22 |
| 22 | 16 | 13 | 0 32 | 11 28 | 2 43 | 8 30 | 1 0 | 13 35 |
| 25 | 16 | 14 | 0 32 | 11 26 | 2 42 | 8 26 | 1 0 | 13 47 |
| 28 | 16 | 14 | 0 32 | 11 24 | 2 42 | 8 23 | 1 0 | 13 58 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|----------------------|--------------|--------------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 14 | 40 | 42 | 8 ^m 29 38 | 14 S 21 | 16 ^m 13 | 2 S 13 | 18 S 6 | 28 10 |
| 2 | S | 14 | 44 | 39 | 9 29 45 | 14 40 | 28 9 | 3 7 | 15 3 | 28 8 |
| 3 | M | 14 | 48 | 36 | 10 29 54 | 14 59 | 10 ^x 0 | 3 52 | 11 24 | 2 5 |
| 4 | Tu | 14 | 52 | 32 | 11 30 4 | 15 18 | 21 50 | 4 27 | 7 20 | 2 3 |
| 5 | W | 14 | 56 | 29 | 12 30 15 | 15 36 | 3 ^r 43 | 4 50 | 2 58 | 2 0 |
| 6 | Th | 15 | 0 | 25 | 13 30 28 | 15 54 | 15 43 | 5 1 | 1 N 33 | 1 58 |
| 7 | F | 15 | 4 | 22 | 14 30 43 | 16 12 | 27 50 | 4 59 | 6 3 | 1 55 |
| 8 | S | 15 | 8 | 18 | 15 31 0 | 16 30 | 10 ^x 7 | 4 43 | 10 23 | 1 53 |
| 9 | S | 15 | 12 | 15 | 16 31 18 | 16 47 | 22 34 | 4 13 | 14 21 | 1 51 |
| 10 | M | 15 | 16 | 11 | 17 31 38 | 17 4 | 5 ^π 12 | 3 30 | 17 44 | 1 48 |
| 11 | Tu | 15 | 20 | 8 | 18 32 0 | 17 21 | 18 0 | 2 36 | 20 19 | 1 46 |
| 12 | W | 15 | 24 | 5 | 19 32 23 | 17 38 | 0 ^σ 59 | 1 33 | 21 54 | 1 43 |
| 13 | Th | 15 | 28 | 1 | 20 32 48 | 17 54 | 14 10 | 0 25 | 22 18 | 1 41 |
| 14 | F | 15 | 31 | 58 | 21 33 16 | 18 10 | 27 32 | 0 N 47 | 21 26 | 1 39 |
| 15 | S | 15 | 35 | 54 | 22 33 45 | 18 26 | 11 ^Ω 9 | 1 57 | 19 19 | 1 36 |
| 16 | S | 15 | 39 | 51 | 23 34 16 | 18 41 | 25 0 | 3 2 | 16 3 | 1 34 |
| 17 | M | 15 | 43 | 47 | 24 34 49 | 18 56 | 9 ^m 6 | 3 56 | 11 49 | 1 32 |
| 18 | Tu | 15 | 47 | 44 | 25 35 23 | 19 10 | 23 26 | 4 37 | 6 51 | 1 30 |
| 19 | W | 15 | 51 | 40 | 26 36 0 | 19 25 | 7 [△] 58 | 5 1 | 1 27 | 1 28 |
| 20 | Th | 15 | 55 | 37 | 27 36 38 | 19 39 | 22 37 | 5 6 | 4 S 4 | 1 26 |
| 21 | F | 15 | 59 | 34 | 28 37 17 | 19 52 | 7 ^m 16 | 4 50 | 9 22 | 1 24 |
| 22 | S | 16 | 3 | 30 | 29 37 58 | 20 5 | 21 47 | 4 16 | 14 6 | 1 22 |
| 23 | S | 16 | 7 | 27 | 0 [†] 38 41 | 20 18 | 6 [†] 5 | 3 26 | 17 57 | 1 20 |
| 24 | M | 16 | 11 | 23 | 1 39 25 | 20 31 | 20 3 | 2 25 | 20 41 | 1 18 |
| 25 | Tu | 16 | 15 | 20 | 2 40 11 | 20 43 | 3 ^w 38 | 1 17 | 22 8 | 1 16 |
| 26 | W | 16 | 19 | 16 | 3 40 57 | 20 54 | 16 48 | 0 6 | 22 18 | 1 14 |
| 27 | Th | 16 | 23 | 13 | 4 41 45 | 21 5 | 29 35 | 1 S 3 | 21 17 | 1 12 |
| 28 | F | 16 | 27 | 9 | 5 42 33 | 21 16 | 12 ^m 1 | 2 7 | 19 14 | 1 10 |
| 29 | S | 16 | 31 | 6 | 6 43 23 | 21 27 | 24 11 | 3 4 | 16 21 | 1 8 |
| 30 | S | 16 | 35 | 3 | 7 44 13 | 21 37 | 6 ^x 10 | 3 52 | 12 51 | 1 6 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 31 | 20 N 48 | 0 N 26 | 16 S 27 | 0 N 46 | 12 S 18 | 20 54 |
| 4 | 1 37 | 20 37 | 0 19 | 17 36 | 0 27 | 14 18 | 20 36 |
| 7 | 1 42 | 20 26 | 0 11 | 18 40 | 0 7 | 16 2 | 20 25 |
| 10 | 1 48 | 20 14 | 0 4 | 19 40 | 0 S 18 | 17 43 | 20 16 |
| 13 | 1 53 | 20 4 | 0 S 8 | 20 36 | 0 38 | 19 17 | 20 6 |
| 16 | 1 59 | 19 55 | 0 10 | 21 25 | 0 53 | 20 42 | 19 57 |
| 19 | 2 6 | 19 47 | 0 18 | 22 9 | 1 10 | 21 58 | 19 47 |
| 22 | 2 12 | 19 40 | 0 25 | 22 48 | 1 27 | 23 4 | 19 38 |
| 25 | 2 19 | 19 34 | 0 33 | 23 20 | 1 42 | 24 0 | 19 28 |
| 28 | 2 26 | 19 30 | 0 39 | 23 47 | 1 55 | 24 44 | 19 18 |

| D
M | h | Long. | Long. | Long. | Long. | Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----|-------|--------|----------|----------|----------|------------------|----------------|---|---|---|---|---|---|
| | | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 0 | 5 13 | 4 m 32 | 3 2 43 | 16 m 47 | 4 m 30 | ☿ ☉ ♈ | | | | | | | ☐ |
| 2 | 0 | 8 8 | 4 45 | 4 8 18 | 2 6 10 | | | Δ | ■ | * | Δ | | | |
| 3 | 0 | 4 | 4 58 | 4 32 19 | 17 7 47 | | | | | | | | | Δ |
| 4 | 0 | 0 | 5 11 | 4 55 20 | 32 9 24 | | | | | | | | Δ | |
| 5 | 29 | r 55 | 5 24 | 5 18 21 | 47 11 3 | | | | | | | | Δ | |
| 6 | 29 | 51 | 5 37 | 5 41 23 | 2 12 39 | ♈ ☐ ♈ | | | | | | | | |
| 7 | 29 | 46 | 5 50 | 6 3 24 | 17 14 16 | ☉ ☉ ☿ | | ☿ | | | | | | |
| 8 | 29 | 41 | 6 3 | 6 25 25 | 33 15 53 | ☉ P ☿ | | ☿ | | | | | | |
| 9 | 29 | 37 | 6 16 | 6 46 26 | 48 17 28 | | | | | | | | | |
| 10 | 29 | 32 | 6 30 | 7 7 28 | 3 19 4 | | | | | | | | | |
| 11 | 29 | 28 | 6 43 | 7 28 29 | 18 20 41 | | | | | | | | | |
| 12 | 29 | 23 | 6 56 | 7 49 0 | ♈ 33 22 | 14 ♀ P ♈ | | | | | | | | |
| 13 | 29 | 19 | 7 9 | 8 9 1 | 48 23 49 | | | | | | | | | |
| 14 | 29 | 14 | 7 22 | 8 29 3 | 4 25 25 | ☿ P ♈ | | Δ | | | | | | |
| 15 | 29 | 10 | 7 35 | 8 48 4 | 19 26 58 | | | | | | | | | |
| 16 | 29 | 6 | 7 48 | 9 6 5 | 34 28 32 | | | ☐ | | | | | | |
| 17 | 29 | 2 | 8 0 | 9 24 6 | 49 0 7 | | | | | | | | | |
| 18 | 28 | 58 | 8 13 | 9 42 8 | 4 1 40 | | | | | | | | | |
| 19 | 28 | 54 | 8 26 | 9 59 9 | 19 3 13 | | | | | | | | | |
| 20 | 28 | 50 | 8 39 | 10 16 10 | 35 4 47 | ♀ Δ ♈ | | | | | | | | |
| 21 | 28 | 47 | 8 52 | 10 32 11 | 50 6 19 | | | | | | | | | |
| 22 | 28 | 43 | 9 4 | 10 47 13 | 5 7 52 | ♈ ☐ ♀ | | | | | | | | |
| 23 | 28 | 39 | 9 17 | 11 2 14 | 20 9 26 | | | ☉ | | | | | | |
| 24 | 28 | 36 | 9 30 | 11 17 15 | 35 10 57 | ♈ Δ ♀ | | | | | | | | |
| 25 | 28 | 32 | 9 42 | 11 31 16 | 50 12 30 | ☐ ☐ ♀ | | | | | | | | |
| 26 | 28 | 28 | 9 55 | 11 45 18 | 6 14 3 | ♈ ☐ ♀ | | | | | | | | |
| 27 | 28 | 25 | 10 8 | 11 58 19 | 21 15 33 | ☐ ☐ ♀ | | * | | | | | | |
| 28 | 28 | 22 | 10 20 | 12 10 20 | 36 17 6 | | | | | | | | | |
| 29 | 28 | 18 | 10 33 | 12 21 21 | 51 18 39 | | | | | | | | | |
| 30 | 28 | 15 | 10 45 | 12 32 23 | 6 20 9 | | | ☐ | | | | | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 31 | 11 N 22 | 2 S 42 | 8 N 20 | 1 N 1 | 14 S 10 |
| 4 | 16 | 15 | 0 31 | 11 20 | 2 41 | 8 18 | 1 1 | 14 21 |
| 7 | 16 | 16 | 0 31 | 11 19 | 2 40 | 8 16 | 1 1 | 14 32 |
| 10 | 16 | 16 | 0 31 | 11 17 | 2 39 | 8 14 | 1 1 | 14 43 |
| 13 | 16 | 16 | 0 31 | 11 16 | 2 38 | 8 13 | 1 1 | 14 53 |
| 16 | 16 | 17 | 0 31 | 11 14 | 2 37 | 8 12 | 1 1 | 15 4 |
| 19 | 16 | 17 | 0 30 | 11 13 | 2 36 | 8 11 | 1 1 | 15 14 |
| 22 | 16 | 17 | 0 30 | 11 12 | 2 35 | 8 11 | 1 1 | 15 23 |
| 25 | 16 | 17 | 0 30 | 11 12 | 2 34 | 8 11 | 1 1 | 15 33 |
| 28 | 16 | 17 | 0 30 | 11 11 | 2 33 | 8 11 | 1 2 | 15 42 |
| 31 | 16 | 17 | 0 30 | 11 11 | 2 32 | 8 12 | 1 2 | 15 50 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 16 38 59 | 8 ↑ 45 5 | 21 S 47 | 18 × 3 | 4 S 30 | 8 S 52 | 18 4 |
| 2 | Tu | 16 42 56 | 9 45 57 | 21 56 | 29 54 | 4 56 | 4 33 | 1 R 2 |
| 3 | W | 16 46 52 | 10 46 50 | 22 5 | 11 r 49 | 5 9 | 0 4 | 1 1 |
| 4 | Th | 16 50 49 | 11 47 44 | 22 13 | 23 51 | 5 9 | 4 N 28 | 0 59 |
| 5 | F | 16 54 45 | 12 48 38 | 22 21 | 68 5 | 4 55 | 8 55 | 0 57 |
| 6 | S | 16 58 42 | 13 49 34 | 22 29 | 18 31 | 4 27 | 13 4 | 0 56 |
| 7 | S | 17 2 38 | 14 50 30 | 22 36 | 1 II 12 | 3 46 | 16 44 | 0 54 |
| 8 | M | 17 6 35 | 15 51 27 | 22 42 | 14 7 | 2 52 | 19 40 | 0 52 |
| 9 | Tu | 17 10 32 | 16 52 25 | 22 49 | 27 17 | 1 48 | 21 38 | 0 51 |
| 10 | W | 17 14 28 | 17 53 24 | 22 54 | 10 40 | 0 37 | 22 25 | 0 49 |
| 11 | Th | 17 11 25 | 18 54 24 | 23 0 | 24 15 | 0 N 38 | 21 54 | 0 48 |
| 12 | F | 17 22 21 | 19 55 25 | 23 4 | 8 Ω 0 | 1 51 | 20 4 | 0 47 |
| 13 | S | 17 26 18 | 20 56 27 | 23 9 | 21 53 | 2 58 | 17 2 | 0 46 |
| 14 | S | 17 30 14 | 21 57 30 | 23 13 | 5 m 54 | 3 56 | 13 0 | 0 44 |
| 15 | M | 17 34 11 | 22 58 34 | 23 16 | 20 0 | 4 39 | 8 14 | 0 43 |
| 16 | Tu | 17 38 7 | 23 59 38 | 23 19 | 4 11 | 5 6 | 3 1 | 0 41 |
| 17 | W | 17 42 4 | 25 0 44 | 23 22 | 18 25 | 5 14 | 2 S 22 | 0 40 |
| 18 | Th | 17 46 1 | 26 1 51 | 23 24 | 2 m 38 | 5 3 | 7 38 | 0 39 |
| 19 | F | 17 49 57 | 27 2 58 | 23 25 | 16 47 | 4 34 | 12 29 | 0 38 |
| 20 | S | 17 53 54 | 28 4 6 | 23 27 | 0 ↑ 49 | 3 48 | 16 37 | 0 37 |
| 21 | S | 17 57 50 | 29 5 14 | 23 27 | 14 39 | 2 50 | 19 46 | 0 36 |
| 22 | M | 18 1 47 | 0 w 6 23 | 23 27 | 28 16 | 1 43 | 21 44 | 0 35 |
| 23 | Tu | 18 5 43 | 1 7 33 | 23 27 | 11 w 35 | 0 31 | 22 26 | 0 34 |
| 24 | W | 18 9 40 | 2 8 43 | 23 26 | 24 36 | 0 S 41 | 21 54 | 0 33 |
| 25 | Th | 18 13 36 | 3 9 53 | 23 25 | 7 m 18 | 1 49 | 20 13 | 0 33 |
| 26 | F | 18 17 33 | 4 11 3 | 23 23 | 19 44 | 2 51 | 17 36 | 0 32 |
| 27 | S | 18 21 30 | 5 12 13 | 23 21 | 1 × 55 | 3 43 | 14 16 | 0 31 |
| 28 | S | 18 25 26 | 6 13 23 | 23 19 | 13 56 | 4 25 | 10 24 | 0 31 |
| 29 | M | 18 29 23 | 7 14 33 | 23 16 | 25 50 | 4 55 | 6 10 | 0 30 |
| 30 | Tu | 18 33 19 | 8 15 43 | 23 12 | 7 r 42 | 5 12 | 1 44 | 0 30 |
| 31 | W | 18 37 16 | 9 16 53 | 23 8 | 19 37 | 5 17 | 2 N 47 | 0 29 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ° | | | | ° | ° | ° | ° | ' | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 23 | 5 | 28 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 29 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 30 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 6 | 2 | 6 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 2 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 26 | 11 | 22 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 46 | 13 | 8 |
| 0 | 44 | 8 | 12 | 23 | 4 | 5 | 58 | 22 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 9 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 0 | 27 | 48 | 15 | 11 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 1 | 27 | 29 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 2 | 28 | 10 | 17 | 12 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 3 | 58 | 7 | 17 | 27 | 3 | 28 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 3 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 14 |
| 1 | 10 | 7 | 19 | 1 | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 0 | 5 | 0 | 54 | 20 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 1 | 6 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 13 | 12 | 22 | 29 | 21 | 3 | 18 | 19 | 22 | 2 | 7 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 29 | 22 | 3 | 22 | 23 | 23 | 3 | 8 | 3 | 59 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 3 | 26 | 29 | 24 | 3 | 8 | 3 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 4 | 8 | 4 | 23 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 2 | 25 | 3 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 25 | 21 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 6 | 10 | 5 | 47 | 26 | 22 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 23 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 24 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 28 | 25 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ° | | | | ° | ° | ° | ° | ' | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 23 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 43 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 13 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 13 | 5 | 14 | 16 | 11 | 30 | 2 | 30 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 1 | 6 | 25 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 28 |
| 4 | 20 | 40 | 7 | 16 | 18 | 12 | 56 | 4 | 2 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 29 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 3 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | 30 | 30 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 31 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 29 | 32 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 33 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 34 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 43 | 35 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 36 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 37 | 7 |
| 4 | 59 | 10 | 16 | 24 | 25 | 19 | 33 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 20 | 11 | 56 | 38 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 39 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 40 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 41 | 11 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 25 | 23 | 14 | 52 | 42 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 36 | 43 | 13 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 20 | 44 | 14 |
| 5 | 29 | 30 | 23 | 0 | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 45 | 15 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 46 | 16 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 28 | 18 | 30 | 47 | 17 |
| 5 | 42 | 34 | 26 | 3 | 4 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 31 | 29 | 19 | 13 | 48 | 18 |
| 5 | 46 | 55 | 27 | 4 | 5 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 32 | 30 | 19 | 57 | 49 | 19 |
| 5 | 51 | 17 | 28 | 5 | 6 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 33 | 31 | 20 | 40 | 50 | 20 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 34 | 32 | 21 | 23 | 51 | 21 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 45 | 30 | 35 | 33 | 22 | 8 | 52 | 22 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 35' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 3 |
|----------------------------|----|----|----|----|----|--------|----|----|----|----------------------------|----|----|----|----|----|--------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ' | H. | M. | S. | ° | ° | ° | ° | ' | ° | ' |
| 0 | 0 | 45 | 0 | 5 | 3 | 25 | 6 | 18 | 31 | 10 | 0 | 25 | 0 | 3 | 25 | 13 | 25 | 11 | 30 |
| 0 | 12 | 54 | 1 | 6 | 3 | 23 | 49 | 19 | 33 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 4 | 12 | 31 |
| 0 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 34 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 31 |
| 0 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 34 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 32 |
| 0 | 26 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 15 | 33 |
| 0 | 30 | 30 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 23 | 5 | 6 | 29 | 15 | 42 | 15 | 34 |
| 0 | 35 | 31 | 6 | 10 | 6 | 26 | 19 | 23 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 31 | 16 | 35 |
| 0 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | 30 | 17 | 0 | 17 | 36 |
| 0 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 29 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 37 |
| 0 | 45 | 45 | 9 | 12 | 9 | 28 | 24 | 25 | 30 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 38 |
| 0 | 49 | 49 | 10 | 14 | 9 | 29 | 8 | 26 | 31 | 10 | 46 | 9 | 10 | 11 | 2 | 18 | 55 | 19 | 39 |
| 0 | 53 | 51 | 11 | 15 | 10 | 30 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | 40 |
| 0 | 57 | 52 | 12 | 16 | 11 | 31 | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 0 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 50 | 22 | 2 |
| 0 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 3 |
| 0 | 9 | 53 | 15 | 19 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 45 | 15 | 15 | 6 | 21 | 4 | 24 | 4 |
| 0 | 13 | 53 | 16 | 19 | 14 | 3 | 13 | 3 | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 21 | 46 | 25 | 5 |
| 0 | 17 | 50 | 17 | 20 | 15 | 3 | 53 | 1 | 7 | 12 | 12 | 10 | 17 | 17 | 7 | 23 | 14 | 25 | 7 |
| 0 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 3 | 8 | 11 | 15 | 23 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 0 | 26 | 44 | 19 | 22 | 17 | 5 | 13 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 25 | 40 | 27 | 9 |
| 0 | 30 | 40 | 20 | 23 | 17 | 5 | 53 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 0 | 33 | 36 | 21 | 24 | 18 | 6 | 33 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 69 | 27 | 11 |
| 0 | 37 | 30 | 22 | 25 | 19 | 7 | 13 | 6 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 |
| 0 | 41 | 23 | 23 | 26 | 20 | 7 | 55 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | 30 | 13 |
| 0 | 45 | 16 | 24 | 27 | 21 | 8 | 22 | 7 | 14 | 11 | 37 | 38 | 24 | 22 | 12 | 27 | 53 | 0 | 14 |
| 0 | 49 | 9 | 25 | 28 | 21 | 9 | 13 | 8 | 15 | 11 | 41 | 30 | 25 | 23 | 13 | 28 | 32 | 1 | 15 |
| 0 | 53 | 1 | 26 | 29 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 0 | 58 | 25 | 27 | 30 | 23 | 10 | 30 | 9 | 17 | 12 | 49 | 9 | 27 | 25 | 14 | 29 | 53 | 3 | 17 |
| 10 | 0 | 44 | 28 | 31 | 24 | 11 | 9 | 10 | 18 | 12 | 53 | 49 | 28 | 26 | 15 | 0 | 25 | 4 | 18 |
| 10 | 4 | 38 | 29 | 1 | 24 | 11 | 49 | 10 | 19 | 12 | 58 | 30 | 29 | 26 | 15 | 1 | 11 | 5 | 19 |
| 10 | 8 | 32 | 30 | 2 | 25 | 12 | 29 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 20 |
| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 3 |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ' | H. | M. | S. | ° | ° | ° | ° | ' | ° | ' |
| 10 | 0 | 0 | 0 | 27 | 10 | 47 | 0 | 21 | 12 | 12 | 51 | 37 | 0 | 31 | 0 | 26 | 4 | 7 | 27 |
| 10 | 3 | 46 | 1 | 28 | 17 | 39 | 7 | 22 | 12 | 12 | 55 | 27 | 1 | 32 | 0 | 28 | 53 | 8 | 28 |
| 10 | 7 | 30 | 2 | 29 | 18 | 11 | 0 | 23 | 12 | 12 | 59 | 17 | 2 | 33 | 0 | 24 | 48 | 10 | 7 |
| 10 | 11 | 0 | 3 | 30 | 19 | 49 | 9 | 24 | 12 | 14 | 3 | 0 | 3 | 34 | 10 | 25 | 31 | 11 | 2 |
| 10 | 14 | 41 | 4 | 31 | 20 | 39 | 7 | 10 | 25 | 14 | 6 | 39 | 4 | 35 | 11 | 26 | 21 | 12 | 3 |
| 10 | 18 | 21 | 5 | 32 | 21 | 29 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 36 | 12 | 27 | 12 | 14 | 4 |
| 10 | 22 | 3 | 6 | 33 | 22 | 19 | 47 | 11 | 27 | 14 | 14 | 44 | 6 | 37 | 13 | 28 | 8 | 15 | 5 |
| 10 | 26 | 48 | 7 | 34 | 23 | 9 | 27 | 12 | 28 | 14 | 18 | 37 | 7 | 37 | 13 | 29 | 58 | 17 | 7 |
| 10 | 30 | 23 | 8 | 35 | 24 | 0 | 18 | 13 | 28 | 14 | 22 | 31 | 8 | 38 | 14 | 30 | 51 | 18 | 8 |
| 10 | 34 | 4 | 9 | 36 | 25 | 45 | 14 | 1 | 14 | 14 | 26 | 25 | 9 | 39 | 15 | 31 | 44 | 20 | 9 |
| 10 | 38 | 45 | 10 | 37 | 26 | 35 | 16 | 2 | 15 | 14 | 30 | 20 | 10 | 40 | 16 | 1 | 40 | 21 | 10 |
| 10 | 42 | 26 | 11 | 38 | 27 | 25 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 17 | 2 | 35 | 22 | 11 |
| 10 | 46 | 8 | 12 | 39 | 28 | 15 | 49 | 17 | 4 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 12 |
| 10 | 50 | 50 | 13 | 40 | 29 | 5 | 29 | 18 | 5 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 25 | 13 |
| 10 | 54 | 33 | 14 | 41 | 30 | 11 | 19 | 19 | 6 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 26 | 14 |
| 10 | 58 | 14 | 15 | 42 | 31 | 0 | 53 | 20 | 7 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 24 | 27 | 15 |
| 10 | 59 | 57 | 16 | 43 | 32 | 50 | 31 | 9 | 8 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 20 | 28 | 16 |
| 10 | 1 | 40 | 17 | 44 | 33 | 40 | 17 | 10 | 9 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 20 | 2 | 17 |
| 10 | 5 | 23 | 18 | 45 | 34 | 30 | 4 | 11 | 10 | 15 | 1 | 0 | 18 | 7 | 23 | 9 | 23 | 4 | 18 |
| 10 | 9 | 7 | 19 | 46 | 35 | 20 | 47 | 12 | 11 | 15 | 5 | 0 | 19 | 7 | 24 | 10 | 28 | 5 | 19 |
| 10 | 13 | 51 | 20 | 47 | 36 | 10 | 37 | 13 | 12 | 15 | 9 | 13 | 20 | 8 | 25 | 11 | 44 | 6 | 20 |
| 10 | 17 | 36 | 21 | 48 | 37 | 0 | 18 | 14 | 13 | 15 | 13 | 18 | 21 | 9 | 26 | 12 | 52 | 7 | 21 |
| 10 | 21 | 20 | 22 | 49 | 38 | 50 | 8 | 15 | 14 | 15 | 17 | 18 | 22 | 10 | 27 | 13 | 0 | 11 | 22 |
| 10 | 25 | 5 | 23 | 50 | 39 | 40 | 17 | 16 | 15 | 15 | 21 | 19 | 23 | 11 | 28 | 14 | 8 | 12 | 23 |
| 10 | 29 | 10 | 24 | 51 | 40 | 30 | 27 | 17 | 16 | 15 | 25 | 20 | 24 | 12 | 29 | 15 | 17 | 13 | 24 |
| 10 | 33 | 55 | 25 | 52 | 41 | 20 | 18 | 18 | 17 | 15 | 29 | 28 | 25 | 13 | 30 | 16 | 21 | 14 | 25 |
| 10 | 37 | 40 | 26 | 53 | 42 | 10 | 9 | 19 | 18 | 15 | 33 | 41 | 26 | 14 | 31 | 17 | 27 | 15 | 26 |
| 10 | 41 | 25 | 27 | 54 | 43 | 0 | 43 | 20 | 19 | 15 | 37 | 37 | 27 | 15 | 1 | 20 | 10 | 16 | 27 |
| 10 | 45 | 0 | 28 | 55 | 44 | 50 | 34 | 21 | 20 | 15 | 41 | 37 | 28 | 16 | 2 | 21 | 38 | 17 | 28 |
| 10 | 49 | 49 | 29 | 56 | 45 | 40 | 25 | 22 | 21 | 15 | 45 | 37 | 29 | 17 | 3 | 22 | 50 | 18 | 29 |
| 10 | 53 | 34 | 30 | 57 | 46 | 30 | 16 | 23 | 22 | 15 | 49 | 37 | 30 | 18 | 4 | 23 | 42 | 19 | 30 |
| 10 | 57 | 19 | 31 | 58 | 47 | 20 | 7 | 24 | 23 | 15 | 53 | 37 | 31 | 19 | 5 | 24 | 14 | 20 | 31 |

ABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Asc.
dian. | 10 | 11 | 12 | Ascen
vr | 2 | 3 | Right Asc.
of Meridian. | 10 | 11 | 12 | Ascen
T | 2 | 3 |
|---------------|----|----|----|-------------|----|----|----------------------------|----|----|----|------------|----|----|
| ° | ° | ° | ° | ° | ° | ° | H. M. S. | ° | ° | ° | ° | ° | ° |
| 15 | 0 | 17 | 4 | 24 13 | 26 | 7 | 18 0 0 | 0 | 17 | 10 | 0 0 | 20 | 13 |
| 25 | 1 | 18 | 5 | 25 39 | 28 | 8 | 18 4 23 | 1 | 18 | 11 | 2 53 | 21 | 14 |
| 36 | 2 | 19 | 6 | 27 9 | 29 | 10 | 18 8 43 | 2 | 19 | 13 | 5 46 | 23 | 15 |
| 48 | 3 | 20 | 7 | 28 40 | 7 | 11 | 18 13 5 | 3 | 20 | 15 | 8 35 | 25 | 16 |
| 0 | 4 | 21 | 8 | Om 11 | 2 | 12 | 18 17 26 | 4 | 21 | 16 | 11 23 | 26 | 17 |
| 13 | 5 | 22 | 9 | 1 48 | 4 | 13 | 18 21 48 | 5 | 22 | 18 | 14 9 | 27 | 18 |
| 26 | 6 | 23 | 10 | 3 28 | 6 | 14 | 18 26 9 | 6 | 23 | 20 | 16 56 | 29 | 19 |
| 40 | 7 | 24 | 11 | 5 9 | 9 | 16 | 18 30 30 | 7 | 25 | 21 | 19 38 | 11 | 20 |
| 55 | 8 | 25 | 12 | 8 55 | 11 | 17 | 18 34 51 | 8 | 26 | 23 | 22 16 | 1 | 21 |
| 10 | 9 | 26 | 13 | 8 44 | 13 | 18 | 18 39 11 | 9 | 27 | 24 | 24 51 | 2 | 22 |
| 26 | 10 | 27 | 14 | 10 36 | 15 | 20 | 18 43 31 | 10 | 28 | 26 | 27 24 | 4 | 23 |
| 42 | 11 | 28 | 15 | 12 31 | 17 | 21 | 18 47 51 | 11 | 29 | 28 | 29 53 | 5 | 24 |
| 59 | 12 | 29 | 16 | 14 30 | 19 | 22 | 18 52 11 | 12 | 1 | 29 | 3 19 | 7 | 25 |
| 16 | 13 | vr | 17 | 16 31 | 21 | 24 | 18 56 31 | 13 | 2 | 30 | 4 40 | 8 | 26 |
| 34 | 14 | 1 | 19 | 18 39 | 23 | 25 | 19 0 50 | 14 | 3 | 2 | 6 58 | 9 | 27 |
| 52 | 15 | 2 | 20 | 20 49 | 25 | 26 | 19 5 8 | 15 | 4 | 4 | 9 11 | 10 | 28 |
| 10 | 16 | 3 | 21 | 23 2 | 27 | 27 | 19 9 20 | 16 | 5 | 6 | 11 21 | 11 | 29 |
| 29 | 17 | 4 | 22 | 26 20 | 28 | 28 | 19 13 44 | 17 | 7 | 8 | 13 29 | 12 | 30 |
| 49 | 18 | 5 | 23 | 27 41 | 30 | 29 | 19 18 1 | 18 | 8 | 10 | 15 30 | 14 | 1 |
| 9 | 19 | 6 | 25 | Om 7 | 2 | 11 | 19 22 18 | 19 | 9 | 12 | 17 29 | 15 | 2 |
| 29 | 20 | 7 | 26 | 2 36 | 3 | 2 | 19 26 34 | 20 | 10 | 14 | 19 24 | 16 | 3 |
| 49 | 21 | 8 | 27 | 5 9 | 5 | 3 | 19 30 50 | 21 | 12 | 16 | 21 16 | 16 | 4 |
| 9 | 22 | 9 | 29 | 7 44 | 7 | 4 | 19 35 5 | 22 | 13 | 18 | 23 5 | 18 | 5 |
| 30 | 23 | 10 | 30 | 10 22 | 8 | 5 | 19 39 20 | 23 | 14 | 20 | 24 51 | 19 | 6 |
| 51 | 24 | 11 | 1 | 13 4 | 10 | 6 | 19 43 34 | 24 | 15 | 22 | 26 33 | 20 | 7 |
| 12 | 25 | 12 | 3 | 15 51 | 12 | 7 | 19 47 47 | 25 | 17 | 24 | 28 12 | 21 | 8 |
| 34 | 26 | 13 | 4 | 18 37 | 14 | 8 | 19 52 0 | 26 | 18 | 26 | 29 49 | 22 | 9 |
| 55 | 27 | 14 | 5 | 21 25 | 15 | 9 | 19 56 12 | 27 | 19 | 28 | 11 20 | 23 | 10 |
| 17 | 28 | 15 | 7 | 24 14 | 17 | 10 | 20 0 24 | 28 | 20 | 7 | 2 51 | 25 | 11 |
| 38 | 29 | 16 | 8 | 27 7 | 19 | 11 | 20 4 35 | 29 | 21 | 1 | 4 21 | 26 | 12 |
| 0 | 30 | 17 | 10 | 30 0 | 20 | 12 | 20 8 45 | 30 | 23 | 3 | 5 47 | 26 | 13 |

| Asc.
dian. | 10 | 11 | 12 | Ascen
II | 2 | 3 | Right Asc.
of Meridian. | 10 | 11 | 12 | Ascen
II | 2 | 3 |
|---------------|----|----|----|-------------|----|----|----------------------------|----|----|----|-------------|----|----|
| ° | ° | ° | ° | ° | ° | ° | H. M. S. | ° | ° | ° | ° | ° | ° |
| 45 | 0 | 23 | 3 | 5 47 | 26 | 13 | 23 8 23 | 0 | 3 | 23 | 6 56 | 23 | 9 |
| 54 | 1 | 24 | 5 | 7 10 | 28 | 14 | 23 12 12 | 1 | 4 | 24 | 7 44 | 23 | 10 |
| 3 | 2 | 25 | 7 | 8 33 | 28 | 14 | 23 16 0 | 2 | 5 | 25 | 8 31 | 23 | 10 |
| 11 | 3 | 27 | 9 | 9 50 | 29 | 15 | 23 19 48 | 3 | 7 | 26 | 9 17 | 24 | 11 |
| 19 | 4 | 28 | 11 | 11 7 | 30 | 16 | 23 23 35 | 4 | 8 | 27 | 10 3 | 25 | 12 |
| 26 | 5 | 29 | 13 | 12 23 | 1 | 17 | 23 27 23 | 5 | 9 | 29 | 10 50 | 26 | 13 |
| 31 | 6 | 30 | 15 | 13 39 | 2 | 18 | 23 31 8 | 6 | 10 | 11 | 11 35 | 26 | 13 |
| 37 | 7 | 31 | 17 | 14 50 | 3 | 19 | 23 34 54 | 7 | 12 | 1 | 12 23 | 27 | 14 |
| 41 | 8 | 32 | 18 | 16 0 | 4 | 20 | 23 38 40 | 8 | 13 | 2 | 13 6 | 28 | 15 |
| 45 | 9 | 33 | 20 | 17 8 | 5 | 21 | 23 42 25 | 9 | 14 | 3 | 13 49 | 29 | 16 |
| 48 | 10 | 34 | 22 | 18 16 | 6 | 22 | 23 46 9 | 10 | 16 | 4 | 14 33 | 29 | 17 |
| 51 | 11 | 35 | 24 | 19 23 | 7 | 23 | 23 49 53 | 11 | 17 | 5 | 15 17 | 30 | 18 |
| 52 | 12 | 36 | 26 | 20 27 | 7 | 23 | 23 53 37 | 12 | 18 | 7 | 16 0 | 1 | 18 |
| 53 | 13 | 37 | 28 | 21 30 | 8 | 24 | 23 57 20 | 13 | 20 | 8 | 16 43 | 2 | 19 |
| 53 | 14 | 38 | 30 | 22 32 | 9 | 25 | 23 1 3 | 14 | 21 | 9 | 17 25 | 3 | 20 |
| 53 | 15 | 39 | 32 | 23 32 | 10 | 26 | 23 4 46 | 15 | 22 | 10 | 18 7 | 4 | 21 |
| 52 | 16 | 40 | 34 | 24 32 | 11 | 27 | 23 8 28 | 16 | 23 | 11 | 18 49 | 4 | 22 |
| 50 | 17 | 41 | 36 | 25 30 | 12 | 27 | 23 12 10 | 17 | 24 | 12 | 19 31 | 5 | 23 |
| 47 | 18 | 42 | 38 | 26 28 | 12 | 28 | 23 15 52 | 18 | 26 | 13 | 20 12 | 6 | 24 |
| 44 | 19 | 43 | 40 | 27 24 | 13 | 29 | 23 19 34 | 19 | 27 | 14 | 20 53 | 6 | 24 |
| 40 | 20 | 44 | 42 | 28 20 | 14 | 30 | 23 23 15 | 20 | 28 | 15 | 21 34 | 7 | 25 |
| 35 | 21 | 45 | 44 | 29 15 | 15 | 31 | 23 26 56 | 21 | 29 | 16 | 22 14 | 8 | 26 |
| 29 | 22 | 46 | 46 | 30 9 | 16 | 32 | 23 30 37 | 22 | 30 | 17 | 22 53 | 8 | 27 |
| 23 | 23 | 47 | 48 | 31 2 | 16 | 33 | 23 34 18 | 23 | 31 | 18 | 23 33 | 9 | 28 |
| 16 | 24 | 48 | 50 | 32 55 | 17 | 34 | 23 37 58 | 24 | 32 | 19 | 24 13 | 10 | 29 |
| 9 | 25 | 49 | 52 | 33 47 | 18 | 35 | 23 41 39 | 25 | 33 | 20 | 24 53 | 11 | 30 |
| 1 | 26 | 50 | 54 | 34 39 | 19 | 36 | 23 45 19 | 26 | 34 | 21 | 25 33 | 11 | 31 |
| 53 | 27 | 51 | 56 | 35 30 | 20 | 37 | 23 49 0 | 27 | 35 | 22 | 26 13 | 12 | 32 |
| 43 | 28 | 52 | 58 | 36 21 | 21 | 38 | 23 52 40 | 28 | 36 | 23 | 26 53 | 12 | 33 |
| 33 | 29 | 53 | 60 | 37 12 | 22 | 39 | 23 56 20 | 29 | 37 | 24 | 27 33 | 13 | 34 |
| 23 | 30 | 54 | 62 | 38 3 | 23 | 40 | 24 0 0 | 30 | 38 | 25 | 28 13 | 14 | 35 |

DR. ROOKE'S ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their STRENGTHENING and RESTORATIVE Properties. Hence their invariable success in the RELIEF and CURE of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the NERVOUS SYSTEM,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The ORIENTAL PILLS are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The SOLAR ELIXIR in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life should read Dr. Rook's "ANTI-LANCET, OR HANDY GUIDE TO DOMESTIC MEDICINE," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained GRATIS of any Chemist, or POST FREE from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S BALSAMIC COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

Invalids should read Crosby's Prize Treatise on "DISEASES OF THE LUNGS AND AIR VESICLES," a copy of which can be had Gratis of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR.

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR.

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdued Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment for this disease."

CROSBY'S BALSAMIC COUGH ELIXIR.

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR.

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR.

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,

CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

Ask your Chemist for the New Edition (GRATE) of Crosby's Prime Treatise on "*DISEASES OF THE LUNGS AND AIR-VESSELS*," containing full and plain instructions for the relief and cure of these diseases, or POST FREE from JAS. M. CROSBY, Chemist, Scarborough.

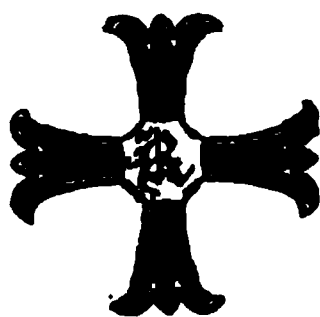
CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
—
OF THE
PLANETS' PLACES

For 1852.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1882.

Price One Shilling.

(A. M., 1882)

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituons Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Roke, under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. ROOKE, Scarborough, England.

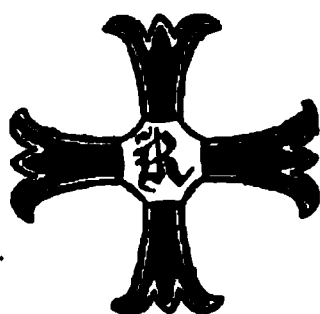
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 173 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1852.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1882.
Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 17 | 0 S 31 | 11 N 10 | 2 S 32 | 8 N 12 | 1 N 2 | 15 S 53 |
| 4 | 16 | 17 | 0 31 | 11 10 | 2 32 | 8 13 | 1 3 | 16 1 |
| 7 | 16 | 17 | 0 31 | 11 10 | 2 31 | 8 15 | 1 3 | 16 9 |
| 10 | 16 | 17 | 0 31 | 11 10 | 2 30 | 8 17 | 1 4 | 16 17 |
| 13 | 16 | 17 | 0 31 | 11 10 | 2 29 | 8 19 | 1 4 | 16 24 |
| 16 | 16 | 17 | 0 30 | 11 11 | 2 28 | 8 22 | 1 5 | 16 31 |
| 19 | 16 | 16 | 0 30 | 11 11 | 2 27 | 8 25 | 1 5 | 16 37 |
| 22 | 16 | 16 | 0 30 | 11 12 | 2 26 | 8 28 | 1 5 | 16 43 |
| 25 | 16 | 16 | 0 30 | 11 13 | 2 25 | 8 32 | 1 5 | 16 49 |
| 28 | 16 | 15 | 0 30 | 11 14 | 2 25 | 8 35 | 1 6 | 16 54 |
| 31 | 16 | 15 | 0 30 | 11 15 | 2 24 | 8 40 | 1 6 | 16 59 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin | | ☾
Long. | | ☾
Lat. | | ☾
Declin | | ♂
Long. | | | | | | | | |
|--------|--------|-------------------|----|----|------------|---|-------------|----|------------|---|-----------|----|-------------|----|------------|---|----|----|---|----|---|---|----|
| | | H. | M. | S. | ° | ' | ″ | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | Th | 18 | 41 | 12 | 10 | w | 18 | 2 | 23 | S | 3 | 1 | 8 | 39 | 5 | S | 7 | 7 | N | 15 | 0 | 8 | 29 |
| 2 | F | 18 | 45 | 9 | 11 | | 19 | 11 | 22 | | 59 | 13 | | 53 | 4 | | 43 | 11 | | 30 | 0 | R | 29 |
| 3 | S | 18 | 49 | 5 | 12 | | 20 | 20 | 22 | | 53 | 26 | | 22 | 4 | | 6 | 15 | | 22 | 0 | | 29 |
| 4 | S | 18 | 53 | 2 | 13 | | 21 | 29 | 22 | | 47 | 9 | Π | 10 | 3 | | 16 | 18 | | 37 | 0 | | 28 |
| 5 | M | 18 | 56 | 59 | 14 | | 22 | 37 | 22 | | 41 | 22 | | 18 | 2 | | 14 | 21 | | 0 | 0 | | 28 |
| 6 | Tu | 19 | 0 | 55 | 15 | | 23 | 45 | 22 | | 34 | 5 | Σ | 46 | 1 | | 3 | 22 | | 17 | 0 | | 28 |
| 7 | W | 19 | 4 | 52 | 16 | | 24 | 53 | 22 | | 27 | 19 | | 33 | 0 | N | 13 | 22 | | 15 | 0 | | 28 |
| 8 | Th | 19 | 8 | 48 | 17 | | 26 | 1 | 22 | | 19 | 3 | Ω | 36 | 1 | | 30 | 20 | | 49 | 0 | | 28 |
| 9 | F | 19 | 11 | 45 | 18 | | 27 | 9 | 22 | | 11 | 17 | | 50 | 2 | | 42 | 18 | | 4 | 0 | | 28 |
| 10 | S | 19 | 16 | 41 | 19 | | 28 | 16 | 22 | | 3 | 2 | w | 12 | 3 | | 45 | 14 | | 11 | 0 | | 28 |
| 11 | S | 19 | 20 | 38 | 20 | | 29 | 24 | 21 | | 54 | 16 | | 36 | 4 | | 33 | 9 | | 29 | 0 | | 28 |
| 12 | M | 19 | 24 | 34 | 21 | | 30 | 31 | 21 | | 44 | 0 | Δ | 58 | 5 | | 5 | 4 | | 16 | 0 | D | 28 |
| 13 | Tu | 19 | 28 | 31 | 22 | | 31 | 38 | 21 | | 34 | 15 | | 14 | 5 | | 17 | 1 | S | 8 | 0 | | 28 |
| 14 | W | 19 | 32 | 28 | 23 | | 32 | 45 | 21 | | 24 | 29 | | 22 | 5 | | 10 | 6 | | 25 | 0 | | 28 |
| 15 | Th | 19 | 36 | 24 | 24 | | 33 | 51 | 21 | | 14 | 13 | m | 20 | 4 | | 45 | 11 | | 19 | 0 | | 28 |
| 16 | F | 19 | 40 | 21 | 25 | | 34 | 58 | 21 | | 2 | 27 | | 7 | 4 | | 3 | 15 | | 35 | 0 | | 29 |
| 17 | S | 19 | 44 | 17 | 26 | | 36 | 4 | 20 | | 51 | 10 | f | 41 | 3 | | 9 | 18 | | 57 | 0 | | 29 |
| 18 | S | 19 | 48 | 14 | 27 | | 37 | 10 | 20 | | 39 | 24 | | 3 | 2 | | 5 | 21 | | 15 | 0 | | 29 |
| 19 | M | 19 | 52 | 10 | 28 | | 38 | 15 | 20 | | 27 | 7 | w | 13 | 0 | | 55 | 22 | | 21 | 0 | | 30 |
| 20 | Tu | 19 | 56 | 7 | 29 | | 39 | 20 | 20 | | 14 | 20 | | 9 | 0 | S | 16 | 22 | | 13 | 0 | | 30 |
| 21 | W | 20 | 0 | 3 | 0 | m | 40 | 24 | 20 | | 1 | 2 | m | 53 | 1 | | 26 | 20 | | 55 | 0 | | 31 |
| 22 | Th | 20 | 4 | 0 | 1 | | 41 | 27 | 19 | | 48 | 15 | | 24 | 2 | | 29 | 18 | | 37 | 0 | | 31 |
| 23 | F | 20 | 7 | 57 | 2 | | 42 | 30 | 19 | | 34 | 27 | | 42 | 3 | | 25 | 15 | | 29 | 0 | | 32 |
| 24 | S | 20 | 11 | 53 | 3 | | 43 | 31 | 19 | | 20 | 9 | x | 50 | 4 | | 11 | 11 | | 45 | 0 | | 33 |
| 25 | S | 20 | 15 | 50 | 4 | | 44 | 32 | 19 | | 6 | 21 | | 50 | 4 | | 45 | 7 | | 36 | 0 | | 34 |
| 26 | M | 20 | 19 | 46 | 5 | | 45 | 31 | 18 | | 51 | 3 | r | 44 | 5 | | 7 | 3 | | 12 | 0 | | 35 |
| 27 | Tu | 20 | 23 | 43 | 6 | | 46 | 30 | 18 | | 36 | 15 | | 35 | 5 | | 15 | 1 | N | 18 | 0 | | 36 |
| 28 | W | 20 | 27 | 39 | 7 | | 47 | 28 | 18 | | 20 | 27 | | 28 | 5 | | 10 | 5 | | 46 | 0 | | 37 |
| 29 | Th | 20 | 31 | 36 | 8 | | 48 | 22 | 18 | | 4 | 9 | 8 | 28 | 4 | | 51 | 10 | | 3 | 0 | | 38 |
| 30 | F | 20 | 35 | 33 | 9 | | 49 | 17 | 17 | | 48 | 21 | | 39 | 4 | | 19 | 14 | | 1 | 0 | | 39 |
| 31 | S | 20 | 39 | 29 | 10 | | 50 | 10 | 17 | | 32 | 4 | Π | 5 | 3 | | 35 | 17 | | 28 | 0 | | 41 |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 8 30 | 11 N 16 | 2 S 24 | 8 N 41 | 1 N 6 | 17 S 0 |
| 4 | 16 | 14 | 0 29 | 11 17 | 2 23 | 8 46 | 1 7 | 17 5 |
| 7 | 16 | 14 | 0 29 | 11 19 | 2 22 | 8 51 | 1 7 | 17 9 |
| 10 | 16 | 13 | 0 29 | 11 21 | 2 21 | 8 56 | 1 7 | 17 12 |
| 13 | 16 | 13 | 0 29 | 11 22 | 2 21 | 9 1 | 1 7 | 17 16 |
| 16 | 16 | 12 | 0 29 | 11 24 | 2 20 | 9 7 | 1 8 | 17 18 |
| 19 | 16 | 12 | 0 29 | 11 27 | 2 19 | 9 13 | 1 8 | 17 21 |
| 22 | 16 | 11 | 0 29 | 11 29 | 2 18 | 9 19 | 1 9 | 17 23 |
| 25 | 16 | 10 | 0 29 | 11 31 | 2 18 | 9 25 | 1 10 | 17 24 |
| 28 | 16 | 10 | 0 29 | 11 34 | 2 17 | 9 32 | 1 10 | 17 25 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♃
Long. |
|--------|--------|-------------------|--------------------|-------------|--------------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 20 43 26 | 11 ^m 51 | 2 17 S 15 | 16 ^h 52 | 2 S 38 | 20 N 11 | 0 42 |
| 2 | M | 20 47 22 | 12 51 52 | 16 58 | 0 ^h 2 | 1 32 | 21 55 | 0 43 |
| 3 | Tu | 20 51 19 | 13 52 42 | 16 40 | 13 37 | 0 19 | 22 27 | 0 44 |
| 4 | W | 20 55 15 | 14 53 29 | 16 23 | 27 37 | 0 N 58 | 21 36 | 0 45 |
| 5 | Th | 20 59 12 | 15 54 16 | 16 5 | 12 Ω 1 | 2 12 | 19 19 | 0 46 |
| 6 | F | 21 3 8 | 16 55 2 | 15 47 | 26 42 | 3 20 | 15 45 | 0 47 |
| 7 | S | 21 7 5 | 17 55 46 | 15 28 | 11 ^m 33 | 4 15 | 11 10 | 0 49 |
| 8 | S | 21 11 1 | 18 56 29 | 15 9 | 26 26 | 4 52 | 5 53 | 0 50 |
| 9 | M | 21 14 58 | 19 57 11 | 14 50 | 11 ^h 13 | 5 10 | 0 19 | 0 52 |
| 10 | Tu | 21 18 55 | 20 57 51 | 14 31 | 25 48 | 5 8 | 5 S 12 | 0 54 |
| 11 | W | 21 22 51 | 21 58 31 | 14 12 | 10 ^m 5 | 4 46 | 10 19 | 0 56 |
| 12 | Th | 21 26 48 | 22 59 9 | 13 52 | 24 2 | 4 8 | 14 47 | 0 58 |
| 13 | F | 21 30 44 | 23 59 47 | 13 32 | 7 ^h 39 | 3 17 | 18 22 | 1 0 |
| 14 | S | 21 34 41 | 25 0 23 | 13 12 | 20 58 | 2 15 | 20 54 | 1 1 |
| 15 | S | 21 38 37 | 26 0 58 | 12 51 | 3 ^h 39 | 1 9 | 22 15 | 1 3 |
| 16 | M | 21 42 34 | 27 1 31 | 12 31 | 16 47 | 0 S 0 | 22 25 | 1 5 |
| 17 | Tu | 21 46 30 | 28 2 4 | 12 10 | 29 22 | 1 8 | 21 25 | 1 7 |
| 18 | W | 21 50 27 | 29 2 35 | 11 49 | 11 ^h 47 | 2 12 | 19 22 | 1 9 |
| 19 | Th | 21 54 24 | 0 ^h 3 4 | 11 28 | 24 3 | 3 8 | 16 28 | 1 11 |
| 20 | F | 21 58 20 | 1 3 32 | 11 6 | 6 ^h 11 | 3 55 | 12 53 | 1 13 |
| 21 | S | 22 2 17 | 2 3 58 | 10 45 | 18 13 | 4 31 | 8 49 | 1 15 |
| 22 | S | 22 6 13 | 3 4 23 | 10 23 | 0 ^h 9 | 4 55 | 4 27 | 1 17 |
| 23 | M | 22 10 10 | 4 4 45 | 10 1 | 12 2 | 5 6 | 0 N 4 | 1 19 |
| 24 | Tu | 22 14 6 | 5 5 6 | 9 39 | 23 53 | 5 4 | 4 34 | 1 21 |
| 25 | W | 22 18 3 | 6 5 25 | 9 17 | 5 ^h 45 | 4 48 | 8 55 | 1 24 |
| 26 | Th | 22 21 59 | 7 5 42 | 8 55 | 17 43 | 4 21 | 12 57 | 1 26 |
| 27 | F | 22 25 56 | 8 5 56 | 8 32 | 29 50 | 3 41 | 16 32 | 1 29 |
| 28 | S | 22 29 53 | 9 6 9 | 8 10 | 12 ^h 12 | 2 50 | 19 28 | 1 31 |
| 29 | S | 22 33 49 | 10 6 20 | 7 47 | 24 52 | 1 49 | 21 32 | 1 34 |

1852.]

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 4 N 28 | 24 N 19 | 1 S 23 | 8 S 30 | 0 N 27 | 21 S 56 | 15 52 |
| 4 | 4 26 | 24 31 | 1 18 | 7 0 | 0 S 1 | 21 54 | 15 42 |
| 7 | 4 24 | 24 42 | 1 12 | 5 28 | 0 26 | 21 41 | 15 33 |
| 10 | 4 20 | 24 50 | 1 6 | 3 55 | 0 49 | 21 18 | 15 23 |
| 13 | 4 16 | 24 56 | 0 59 | 2 22 | 1 9 | 20 43 | 15 14 |
| 16 | 4 12 | 25 0 | 0 52 | 0 47 | 1 27 | 19 57 | 15 4 |
| 19 | 4 7 | 25 3 | 0 44 | 0 N 17 | 1 42 | 18 59 | 14 55 |
| 22 | 4 1 | 25 3 | 0 35 | 2 22 | 1 54 | 17 49 | 14 45 |
| 25 | 3 55 | 25 1 | 0 26 | 3 56 | 2 2 | 16 27 | 14 35 |
| 28 | 3 50 | 24 58 | 0 16 | 5 29 | 2 8 | 14 54 | 14 26 |

| D
M | h | | ♃ | | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|-----|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 28 r 25 | 21 m 11 | 1 Ω 0 | 11 x 35 | 17 w 1 | ♀ P h | Δ | | | | | Δ | | | | | ☐ |
| 2 | 28 29 21 | 17 0 B 38 | 12 49 | 18 10 | 18 10 | ♂ ☐ ♂ | | * | * | | | | * | * | | | |
| 3 | 28 33 21 | 23 0 16 | 14 3 | 19 20 | 20 34 | | | | | | | | | | | | ♂ |
| 4 | 28 37 21 | 29 29 55 | 15 17 | 20 34 | 21 40 | ♃ * ♄ | ♄ | ☐ | ☐ | Δ | ♂ | | | | | | |
| 5 | 28 41 21 | 35 29 34 | 16 31 | 21 40 | 22 49 | ♃ * ♄ | ♄ | | | | | | | | | | |
| 6 | 28 44 21 | 41 29 14 | 17 45 | 23 5 | 23 5 | | | | | | | | Δ | Δ | ☐ | | |
| 7 | 28 48 21 | 46 28 54 | 18 58 | 24 23 | 24 23 | h ☐ ♂ | | | | | | | | | | | |
| 8 | 28 52 21 | 51 28 35 | 20 12 | 25 42 | 25 42 | | | | | | | | | | * | * | ♂ Δ |
| 9 | 28 57 21 | 56 28 16 | 21 26 | 27 3 | 27 3 | ♃ Δ ♄ | | | | | | | | | | | |
| 10 | 29 1 22 | 1 27 58 | 22 39 | 28 24 | 28 24 | h ☐ ♄ | Δ | ♄ | ♄ | | | Δ | ♄ | | | ☐ | ☐ |
| 11 | 29 6 22 | 6 27 41 | 23 53 | 29 47 | 29 47 | ☉ ☐ ♃ | | | | | | | | | | | |
| 12 | 29 10 22 | 11 27 25 | 25 6 | 1 m 12 | 12 12 | ♂ ☐ ♄ | ☐ | | | | | | | | | ♂ Δ | Δ |
| 13 | 29 14 22 | 16 27 9 | 26 19 | 2 36 | 2 36 | | | | | | | | | | | | * |
| 14 | 29 19 22 | 20 26 54 | 27 33 | 4 2 | 4 2 | ♄ Δ ♄ | * | | | | | | | | | | |
| 15 | 29 24 22 | 24 26 40 | 28 46 | 5 30 | 5 30 | | | | | | | | Δ | Δ | | | ☐ |
| 16 | 29 28 22 | 28 26 26 | 29 59 | 6 59 | 6 59 | | | | | | | | | | * | ♄ | * |
| 17 | 29 33 22 | 32 26 12 | 1 r 13 | 8 29 | 8 29 | | | | | | | | ☐ | ☐ | | ♄ | * |
| 18 | 29 38 22 | 36 26 1 | 2 26 | 9 59 | 9 59 | | | | | | | | | | | | ♄ |
| 19 | 29 43 22 | 39 25 49 | 3 39 | 11 29 | 11 29 | ☉ * h | ♄ | | * | | | | | * | ☐ | | |
| 20 | 29 48 22 | 42 25 39 | 4 52 | 13 1 | 13 1 | ☉ * h | ♄ | ♄ | * | | | ♄ | * | | | | |
| 21 | 29 54 22 | 45 25 30 | 6 5 | 14 35 | 14 35 | | | | | | | | | | | Δ | |
| 22 | 29 59 22 | 48 25 21 | 7 17 | 16 10 | 16 10 | | | | | | | | | | | Δ | |
| 23 | 0 8 4 22 | 51 25 13 | 8 30 | 17 46 | 17 46 | ♀ P ♃ | | | | | | | | | | ♄ | * |
| 24 | 0 9 22 | 54 25 6 | 9 43 | 19 22 | 19 22 | | | | | | | | | | | ☐ | |
| 25 | 0 15 22 | 57 24 59 | 10 55 | 20 59 | 20 59 | ☉ P h | * | ♄ | ♄ | | | | | | | | |
| 26 | 0 20 22 | 59 24 53 | 12 8 | 22 37 | 22 37 | ♃ ☐ ♄ | | | | | | | | | | ♄ | ☐ |
| 27 | 0 25 23 | 1 24 48 | 13 20 | 24 16 | 24 16 | | | | | | | | | | | * | |
| 28 | 0 31 23 | 3 24 44 | 14 32 | 25 56 | 25 56 | | | | | | | ☐ | | | | * | * |
| 29 | 0 37 23 | 4 24 40 | 15 45 | 27 37 | 27 37 | ☉ ☐ ♂ | | | | | | | | * | | | Δ |

MARCH XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|---|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 3 29 | 11 N 35 | 2 8 16 | 9 3 36 | 1 N 10 | 17 3 26 |
| 2 | 16 | 8 | 0 29 | 11 38 | 2 16 | 9 43 | 1 11 | 17 26 |
| 7 | 16 | 8 | 0 29 | 11 41 | 2 15 | 9 50 | 1 11 | 17 26 |
| 10 | 16 | 7 | 0 28 | 11 44 | 2 15 | 9 57 | 1 12 | 17 26 |
| 13 | 16 | 6 | 0 28 | 11 47 | 2 15 | 10 4 | 1 12 | 17 25 |
| 16 | 16 | 5 | 0 28 | 11 50 | 2 14 | 10 11 | 1 13 | 17 24 |
| 19 | 16 | 4 | 0 28 | 11 53 | 2 14 | 10 18 | 1 13 | 17 22 |
| 22 | 16 | 4 | 0 28 | 11 56 | 2 13 | 10 26 | 1 14 | 17 20 |
| 25 | 16 | 3 | 0 28 | 11 59 | 2 13 | 10 33 | 1 14 | 17 17 |
| 28 | 16 | 2 | 0 28 | 12 3 | 2 13 | 10 41 | 1 14 | 17 15 |
| 31 | 16 | 1 | 0 28 | 12 6 | 2 12 | 10 49 | 1 15 | 17 11 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Declin. | ♂
Declin. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|--------------|--------------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 22 37 46 | 11 6 28 | 7 3 24 | 7 55 56 | 0 3 41 | 22 N 32 | 1 36 | 1 36 |
| 2 | Tu | 22 41 42 | 11 6 36 | 7 1 21 | 27 27 | 0 N 31 | 22 15 | 1 38 | 1 38 |
| 3 | W | 22 45 39 | 11 6 39 | 6 38 | 5 27 | 1 44 | 20 36 | 1 40 | 1 40 |
| 4 | Th | 22 49 35 | 11 6 41 | 6 15 | 19 56 | 2 52 | 17 34 | 1 42 | 1 42 |
| 5 | F | 22 53 32 | 11 6 42 | 5 52 | 4 49 | 3 51 | 13 20 | 1 45 | 1 45 |
| 6 | S | 22 57 28 | 11 6 40 | 5 29 | 19 58 | 4 35 | 8 11 | 1 48 | 1 48 |
| 7 | S | 23 1 25 | 11 6 37 | 5 6 | 5 13 | 4 59 | 2 30 | 1 51 | 1 51 |
| 8 | M | 23 5 22 | 11 6 32 | 4 42 | 20 34 | 5 2 | 3 19 | 1 53 | 1 53 |
| 9 | Tu | 23 9 18 | 11 6 25 | 4 19 | 5 20 | 4 45 | 8 50 | 1 56 | 1 56 |
| 10 | W | 23 13 15 | 11 6 16 | 3 55 | 19 54 | 4 9 | 13 44 | 1 59 | 1 59 |
| 11 | Th | 23 17 11 | 11 6 6 | | | | | 2 2 | 2 2 |
| 12 | F | 23 21 8 | 11 5 54 | | | | | 2 6 | 2 6 |
| 13 | S | 23 25 4 | 11 5 40 | | | | | 2 8 | 2 8 |
| 14 | S | 23 29 1 | 11 5 24 | | | | | 2 11 | 2 11 |
| 15 | M | 23 32 57 | 11 5 7 | | | | | 2 13 | 2 13 |
| 16 | Tu | 23 36 54 | 11 4 48 | 1 34 | 8 51 | 2 5 | 20 4 | 2 16 | 2 16 |
| 17 | W | 23 40 51 | 11 4 27 | 1 10 | 21 3 | 3 0 | 17 20 | 2 20 | 2 20 |
| 18 | Th | 23 44 47 | 11 4 5 | 0 46 | 3 7 | 3 47 | 13 53 | 2 23 | 2 23 |
| 19 | F | 23 48 44 | 11 3 40 | 0 22 | 15 5 | 4 23 | 9 55 | 2 26 | 2 26 |
| 20 | S | 23 52 40 | 11 3 14 | 0 N 1 | 27 0 | 4 47 | 5 35 | 2 28 | 2 28 |
| 21 | S | 23 56 37 | 11 2 46 | 0 25 | 8 58 | 4 59 | 1 8 | 2 31 | 2 31 |
| 22 | M | 0 0 33 | 11 2 15 | 0 49 | 20 45 | 4 58 | 3 N 31 | 2 34 | 2 34 |
| 23 | Tu | 0 4 30 | 11 1 42 | 1 12 | 2 38 | 4 43 | 7 57 | 2 37 | 2 37 |
| 24 | W | 0 8 26 | 11 1 8 | 1 36 | 14 33 | 4 17 | 12 7 | 2 40 | 2 40 |
| 25 | Th | 0 12 23 | 11 0 31 | 1 59 | 26 32 | 3 39 | 15 51 | 2 43 | 2 43 |
| 26 | F | 0 16 19 | 11 0 59 | 2 23 | 3 40 | 2 50 | 18 58 | 2 46 | 2 46 |
| 27 | S | 0 20 16 | 11 0 59 | 2 47 | 21 0 | 1 53 | 21 17 | 2 49 | 2 49 |
| 28 | S | 0 24 13 | 11 0 58 | 3 10 | 3 37 | 0 49 | 22 36 | 2 52 | 2 52 |
| 29 | M | 0 28 9 | 11 0 57 | 3 33 | 16 34 | 0 N 20 | 22 45 | 2 55 | 2 55 |
| 30 | Tu | 0 32 0 | 11 0 56 | 3 57 | 29 57 | 1 29 | 21 37 | 2 59 | 2 59 |
| 31 | W | 0 36 2 | 11 0 55 | 4 20 | 18 49 | 2 36 | 19 11 | 3 3 | 3 3 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 3 N 46 | 24 N 55 | 0 S 10 | 6 N 31 | 2 S 10 | 13 S 44 | 14 20 |
| 4 | 3 39 | 24 50 | 0 N 0 | 8 2 | 2 9 | 11 51 | 14 10 |
| 7 | 3 34 | 24 44 | 0 11 | 9 32 | 2 3 | 9 45 | 14 1 |
| 10 | 3 28 | 24 36 | 0 21 | 11 0 | 1 54 | 7 28 | 13 51 |
| 13 | 3 22 | 24 27 | 0 32 | 12 25 | 1 39 | 5 0 | 13 42 |
| 16 | 3 16 | 24 17 | 0 42 | 13 49 | 1 20 | 2 22 | 13 32 |
| 19 | 3 10 | 24 6 | 0 54 | 15 9 | 0 56 | 0 N 23 | 13 23 |
| 22 | 3 4 | 23 54 | 1 5 | 16 26 | 0 27 | 3 13 | 13 13 |
| 25 | 2 59 | 23 42 | 1 16 | 17 40 | 0 N 6 | 6 4 | 13 4 |
| 28 | 2 52 | 23 28 | 1 27 | 18 50 | 0 40 | 8 50 | 12 54 |
| 31 | 2 48 | 23 13 | 1 38 | 19 56 | 1 16 | 11 24 | 12 46 |

| D
M | h | u | ♂ | ♀ | ♂ | Mutual
Aspts. | Lu
h |
|--------|-------|--------|---------|-------|-------|------------------|---------|
| | Long. | Long. | Long. | Long. | Long. | | ° |
| | ° | ' | ° | ' | ° | | |
| 1 | 0 49 | 23 m 6 | 24 38 | 16 57 | 29 20 | | Δ |
| 2 | 0 40 | 23 7 | 24 36 | 18 9 | 1 3 | ♂ * ♀ | |
| 3 | 0 55 | 23 8 | 24 35 | 19 21 | 2 48 | | □ |
| 4 | 1 1 | 23 9 | 24 D 35 | 20 32 | 4 33 | | |
| 5 | 1 7 | 23 10 | 24 36 | 21 44 | 6 19 | ♀ ∠ ♀ | Δ |
| 6 | 1 13 | 23 10 | 24 37 | 22 56 | 8 7 | ☉ ∠ h | ♂ |
| 7 | 1 20 | 23 11 | 24 38 | 24 8 | 9 57 | ♀ □ ♂ | |
| 8 | 1 26 | 23 11 | 24 40 | 25 20 | 11 47 | | |
| 9 | 1 32 | 23 11 | 24 43 | 26 31 | 13 38 | | ♂ |
| 10 | 1 38 | 23 11 | 24 47 | 27 42 | 15 31 | | Δ |
| 11 | 1 45 | 23 10 | 24 52 | 28 54 | 17 23 | ♂ ∠ ♀ | |
| 12 | 1 51 | 23 10 | 24 57 | 0 5 | 19 18 | | □ |
| 13 | 1 58 | 23 9 | 25 3 | 1 16 | 21 14 | ☉ Δ u | Δ |
| 14 | 2 4 | 23 8 | 25 10 | 2 27 | 23 11 | ♂ ∠ ♀ | |
| 15 | 2 11 | 23 7 | 25 17 | 3 38 | 25 9 | ☉ Δ ♂ | * □ |
| 16 | 2 18 | 23 6 | 25 26 | 4 48 | 27 7 | ♂ ∠ h | |
| 17 | 2 24 | 23 5 | 25 38 | 5 59 | 29 6 | | |
| 18 | 2 31 | 23 3 | 25 42 | 7 10 | 1 7 | ☉ P ♀ | ■ |
| 19 | 2 38 | 23 1 | 25 52 | 8 20 | 3 7 | | |
| 20 | 2 45 | 22 59 | 26 2 | 9 31 | 5 7 | | ♂ |
| 21 | 2 52 | 22 57 | 26 13 | 10 41 | 7 9 | | |
| 22 | 2 58 | 22 55 | 26 24 | 11 51 | 9 11 | | |
| 23 | 3 5 | 22 52 | 26 36 | 13 1 | 11 11 | | C |
| 24 | 3 12 | 22 49 | 26 48 | 14 11 | 13 11 | ♀ P u | |
| 25 | 3 20 | 22 46 | 27 1 | 15 21 | 15 11 | | |
| 26 | 3 27 | 22 43 | 27 16 | 16 31 | 17 9 | | * |
| 27 | 3 34 | 22 40 | 27 29 | 17 40 | 19 6 | | |
| 28 | 3 42 | 22 36 | 27 43 | 18 49 | 21 1 | ☉ □ u | □ |
| 29 | 3 49 | 22 32 | 27 58 | 19 58 | 23 53 | | |
| 30 | 3 56 | 22 28 | 28 18 | 21 7 | 24 42 | | □ |
| 31 | 4 3 | 22 24 | 28 29 | 22 16 | 26 29 | u ♀ ♀ | Δ |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 1 | 0 28 | 12 N 7 | 28 12 | 10 N 51 | 1 N 15 | 17 S 10 |
| 4 | 16 | 0 | 0 28 | 12 10 | 2 12 | 10 59 | 1 15 | 17 7 |
| 7 | 15 | 59 | 0 28 | 12 14 | 2 11 | 11 7 | 1 15 | 17 3 |
| 10 | 15 | 59 | 0 28 | 12 17 | 2 11 | 11 14 | 1 15 | 16 58 |
| 13 | 15 | 58 | 0 28 | 12 21 | 2 11 | 11 22 | 1 15 | 16 54 |
| 16 | | | | 24 | 2 11 | 11 30 | 1 15 | 16 49 |
| 19 | | | | 28 | 2 11 | 11 37 | 1 15 | 16 43 |
| 22 | | | | 31 | 2 10 | 11 45 | 1 15 | 16 38 |
| 25 | | | | 35 | 2 10 | 11 53 | 1 15 | 16 32 |
| 28 | | | | 38 | 2 10 | 12 0 | 1 15 | 16 27 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 0 39 59 | 11 55 6 | 4 N 49 | 28 2 9 | 3 N 35 | 15 N 29 | 3 6 |
| 2 | F | 0 43 55 | 12 54 10 | 5 6 | 12 57 | 4 21 | 10 43 | 3 9 |
| 3 | S | 0 47 52 | 13 53 12 | 5 28 | 28 6 | 4 51 | 5 12 | 3 13 |
| 4 | S | 0 51 48 | 14 52 13 | 5 51 | 19 26 | 5 0 | 0 8 42 | 3 16 |
| 5 | M | 0 55 45 | 15 51 11 | 6 15 | 28 47 | 4 48 | 6 34 | 3 19 |
| 6 | T | | | 7 6 | 37 13 55 | 4 15 | 11 58 | 3 22 |
| 7 | T | | | 1 7 | 0 28 43 | 3 26 | 16 32 | 3 25 |
| 8 | T | | | 4 7 | 22 18 4 | 2 25 | 19 59 | 3 29 |
| 9 | T | | | 4 7 | 45 26 54 | 1 17 | 22 8 | 3 32 |
| 10 | T | | | 8 8 | 7 10 17 | 0 7 | 22 56 | 3 36 |
| 11 | S | 1 19 24 | 21 44 21 | 8 29 | 23 13 | 1 S 1 22 | 27 | 3 39 |
| 12 | M | 1 23 21 | 22 43 6 | 8 51 | 5 48 | 2 4 | 20 50 | 3 42 |
| 13 | Tu | 1 27 17 | 23 41 50 | 9 12 | 18 6 | 3 0 | 18 16 | 3 46 |
| 14 | W | 1 31 14 | 24 40 32 | 9 33 | 0 13 | 3 47 | 14 56 | 3 49 |
| 15 | Th | 1 35 11 | 25 39 12 | 9 55 | 12 10 | 4 23 | 11 3 | 3 53 |
| 16 | F | 1 39 7 | 26 37 51 | 10 17 | 24 4 | 4 47 | 6 46 | 3 56 |
| 17 | S | 1 43 4 | 27 36 28 | 10 38 | 5 55 | 4 59 | 2 14 | 4 0 |
| 18 | S | 1 47 0 | 28 35 8 | 10 59 | 17 47 | 4 58 | 2 N 23 | 4 3 |
| 19 | M | 1 50 57 | 29 33 36 | 11 20 | 29 40 | 4 44 | 6 56 | 4 7 |
| 20 | Tu | 1 54 53 | 0 32 8 | 11 40 | 11 37 | 4 15 | 11 14 | 4 10 |
| 21 | W | 1 58 50 | 1 30 37 | 12 0 | 23 38 | 3 40 | 15 9 | 4 14 |
| 22 | Th | 2 2 46 | 2 29 4 | 12 20 | 5 45 | 2 51 | 18 28 | 4 17 |
| 23 | F | 2 6 43 | 3 27 29 | 12 41 | 18 1 | 1 54 | 21 1 | 4 21 |
| 24 | S | 2 10 40 | 4 25 53 | 13 0 | 0 27 | 0 51 | 22 37 | 4 25 |
| 25 | S | 2 14 36 | 5 24 14 | 13 20 | 13 7 | 0 N 17 | 23 5 | 4 28 |
| 26 | M | 2 18 33 | 6 22 33 | 13 39 | 26 5 | 1 25 | 22 20 | 4 32 |
| 27 | Tu | 2 22 29 | 7 20 49 | 13 58 | 9 24 | 2 30 | 20 19 | 4 35 |
| 28 | W | 2 26 26 | 8 19 4 | 14 17 | 23 8 | 3 29 | 17 6 | 4 38 |
| 29 | Th | 2 30 22 | 9 17 17 | 14 36 | 7 16 | 4 17 | 12 49 | 4 42 |
| 30 | F | 2 34 19 | 10 15 28 | 14 51 | 21 50 | 4 50 | 7 41 | 4 45 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 2 N 46 | 23 N 8 | 1 N 41 | 20 N 17 | 1 N 27 | 12 N 12 | 12 ☾ 41 |
| 4 | 2 41 | 22 52 | 1 52 | 21 17 | 1 59 | 14 22 | 12 81 |
| 7 | 2 36 | 22 36 | 2 2 | 22 12 | 2 27 | 16 9 | 12 22 |
| 10 | 2 31 | 22 18 | 2 12 | 23 3 | 2 47 | 17 30 | 12 12 |
| 13 | 2 26 | 21 59 | 2 21 | 23 48 | 2 58 | 18 24 | 12 3 |
| 16 | 2 21 | 21 40 | 2 29 | 24 28 | 2 59 | 18 49 | 11 53 |
| 19 | 2 16 | 21 19 | 2 37 | 25 3 | 2 48 | 18 47 | 11 44 |
| 22 | 2 12 | 20 58 | 2 44 | 25 33 | 2 24 | 18 17 | 11 34 |
| 25 | 2 8 | 20 35 | 2 51 | 25 56 | 1 50 | 17 23 | 11 25 |
| 28 | 2 4 | 20 12 | 2 57 | 26 15 | 1 5 | 16 10 | 11 15 |

| D
M | ☿ | | ♈ | | ♉ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|--------|---------|---------|---------|---------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 4 8 10 | 22 m 20 | 28 ☾ 45 | 23 8 25 | 28 r 12 | 28 r 12 | ♈ ☐ ♉ | | Δ | Δ | ☐ | | ☐ | Δ |
| 2 | 4 17 | 22 R 16 | 29 2 24 | 84 29 | 51 | 51 | | | | | | | ☐ | |
| 3 | 4 24 | 22 12 | 29 19 | 25 42 | 1 8 26 | 1 8 26 | | | | | * | * | Δ | |
| 4 | 4 32 | 22 7 | 29 36 | 26 50 | 2 56 | 2 56 | ♈ ☐ ♉ | ♈ | | | | | ☐ | |
| 5 | 4 39 | 22 2 | 29 54 | 27 58 | 4 21 | 4 21 | ♈ ☐ ♉ | ♈ | ♈ | ♈ | | ☐ | | ♈ |
| 6 | 4 47 | 21 57 | 0 Ω 12 | 29 6 5 | 41 | 41 | | | | | | | | |
| 7 | 4 55 | 21 52 | 0 31 | 0 13 | 6 56 | 6 56 | ♈ * ♉ | | | | ♈ | Δ | ♈ | |
| 8 | 5 2 | 21 47 | 0 50 | 1 21 | 8 5 | 8 5 | ♈ P ♉ | Δ | | | ♈ | | | |
| 9 | 5 10 | 21 42 | 1 9 | 2 28 | 9 9 | 9 9 | ♈ P ♉ | | Δ | | | | | |
| 10 | 5 17 | 21 37 | 1 29 | 3 35 | 10 6 | 10 6 | | | | Δ | | | | Δ |
| 11 | 5 25 | 21 31 | 1 49 | 4 42 | 10 58 | 10 58 | | ☐ | | | * | | | |
| 12 | 5 32 | 21 25 | 2 9 | 5 49 | 11 44 | 11 44 | | | ☐ | ☐ | | ♈ | Δ | |
| 13 | 5 40 | 21 19 | 2 31 | 6 58 | 12 23 | 12 23 | | | | ☐ | | | | ☐ |
| 14 | 5 47 | 21 13 | 2 52 | 8 2 | 12 56 | 12 56 | | * | * | * | | | | |
| 15 | 5 55 | 21 7 | 3 13 | 9 8 | 13 24 | 13 24 | | | | | | | ☐ | * |
| 16 | 6 3 | 21 1 | 3 35 | 10 14 | 13 45 | 13 45 | | | | | Δ | | | |
| 17 | 6 10 | 20 55 | 3 57 | 11 20 | 14 0 | 14 0 | ♈ ☐ ♉ | | | | | Δ | | |
| 18 | 6 18 | 20 48 | 4 19 | 12 26 | 14 9 | 14 9 | | | | | | | * | |
| 19 | 6 26 | 20 41 | 4 42 | 13 31 | 14 R 12 | 14 R 12 | | ♈ | ♈ | | | ☐ | | ♈ |
| 20 | 6 34 | 20 34 | 5 5 | 14 36 | 14 9 | 14 9 | ☉ P ♈ | ♈ | ♈ | ♈ | | | | ♈ |
| 21 | 6 41 | 20 27 | 5 28 | 15 41 | 14 0 | 14 0 | | | | | ♈ | | | |
| 22 | 6 49 | 20 20 | 5 52 | 16 46 | 13 46 | 13 46 | | | | | | * | | |
| 23 | 6 56 | 20 13 | 6 16 | 17 50 | 13 28 | 13 28 | ☉ P ♈ | | | | | | ♈ | |
| 24 | 7 4 | 20 6 | 6 40 | 18 55 | 13 5 | 13 5 | ☉ ☐ ♈ | * | * | | | | | |
| 25 | 7 12 | 19 59 | 7 4 | 19 58 | 12 38 | 12 38 | ♈ ☐ ♉ | | | * | | | | * |
| 26 | 7 19 | 19 52 | 7 29 | 21 2 | 12 7 | 12 7 | | | | | Δ | | | |
| 27 | 7 27 | 19 45 | 7 54 | 22 5 | 11 33 | 11 33 | ☉ ☐ ♈ | ☐ | ☐ | ☐ | | ♈ | | ☐ |
| 28 | 7 35 | 19 38 | 8 19 | 23 8 | 10 58 | 10 58 | ☉ ☐ ♈ | | | | ☐ | | * | |
| 29 | 7 42 | 19 31 | 8 44 | 24 11 | 10 20 | 10 20 | | Δ | Δ | Δ | | | | Δ |
| 30 | 7 50 | 19 23 | 9 10 | 25 13 | 9 42 | 9 42 | ☉ ☐ ♈ | | | | * | | ☐ | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 N 0 | 19 N 48 | 3 N 3 | 26 N 27 | 0 N 15 | 14 N 46 | 11 56 |
| 4 | 1 56 | 19 22 | 3 7 | 26 34 | 0 S 37 | 13 22 | 10 56 |
| 7 | 1 52 | 18 56 | 3 9 | 26 36 | 1 26 | 12 6 | 10 47 |
| 10 | 1 48 | 18 29 | 3 10 | 26 32 | 2 9 | 11 7 | 10 37 |
| 13 | 1 44 | 18 1 | 3 11 | 26 23 | 2 43 | 10 28 | 10 28 |
| 16 | 1 41 | 17 32 | 3 10 | 26 10 | 3 10 | 9 59 | 10 18 |
| 19 | 1 38 | 17 2 | 3 7 | 25 52 | 3 7 | 9 50 | 10 9 |
| 22 | 1 34 | 16 31 | 3 8 | 25 29 | 3 3 | 9 39 | 9 59 |
| 25 | 1 31 | 15 59 | 2 58 | 25 3 | 3 4 | 9 30 | 9 50 |
| 28 | 1 27 | 15 26 | 2 49 | 24 32 | 3 1 | 9 21 | 9 40 |
| 31 | 1 24 | 14 52 | 2 39 | 23 59 | 3 1 | 9 12 | 9 31 |

| D
M | h | | N | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|----|-------|------|-------|------|-------|------|------------------|----------------|-------|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | | ☉ | ☽ | h | N | ♂ | ♀ | ☿ |
| 1 | 7 | 58 | 19 | m 15 | 9 | Ω 35 | 26 | Π 15 | 9 | ♂ 8 | ☉ ∠ ♀ | | | | * | |
| 2 | 8 | 5 | 19 | R 7 | 10 | 1 | 27 | 17 | 8 | R 25 | h ♂ ♀ | | | | | Δ |
| 3 | 8 | 13 | 19 | 0 | 10 | 28 | 28 | 19 | 7 | 49 | | ♂ | ♂ | ♂ | □ | ♂ |
| 4 | 8 | 21 | 18 | 52 | 10 | 55 | 29 | 20 | 7 | 14 | | | | ♂ | | |
| 5 | 8 | 28 | 18 | 44 | 11 | 22 | 0 | 20 | 6 | 41 | ♂ P h | | | | Δ | |
| 6 | 8 | 36 | 18 | 37 | 11 | 48 | 1 | 20 | 6 | 11 | | | | | | |
| 7 | 8 | 44 | 18 | 29 | 12 | 18 | 2 | 20 | 5 | 44 | | | | | ♂ | Δ |
| 8 | 8 | 51 | 18 | 22 | 12 | 43 | 3 | 20 | 5 | 21 | ☉ ♂ N | Δ | | | | |
| 9 | 8 | 59 | 18 | 14 | 13 | 10 | 4 | 19 | 5 | 3 | | | | | | □ |
| 10 | 9 | 7 | 18 | 6 | 13 | 38 | 5 | 18 | 4 | 48 | h * ♀ | □ | | | ♂ | |
| 11 | 9 | 14 | 17 | 58 | 14 | 6 | 6 | 16 | 4 | 37 | | | | | | |
| 12 | 9 | 22 | 17 | 51 | 14 | 33 | 7 | 14 | 4 | 32 | | | * | * | | * |
| 13 | 9 | 30 | 17 | 43 | 15 | 2 | 8 | 13 | 4 | D 30 | | * | | | Δ | |
| 14 | 9 | 37 | 17 | 35 | 16 | 30 | 9 | 9 | 4 | 34 | | | | | | |
| 15 | 9 | 44 | 17 | 28 | 16 | 58 | 10 | 6 | 4 | 42 | h * ♀ | | | | Δ | □ |
| 16 | 9 | 52 | 17 | 21 | 16 | 27 | 11 | 1 | 4 | 55 | | | | | | |
| 17 | 10 | 0 | 17 | 13 | 16 | 56 | 11 | 57 | 5 | 11 | N □ ♂ | | ♂ | ♂ | | ♂ |
| 18 | 10 | 7 | 17 | 5 | 17 | 25 | 12 | 52 | 5 | 32 | | | | | ♂ | □ |
| 19 | 10 | 16 | 16 | 58 | 17 | 55 | 13 | 47 | 5 | 58 | | ♂ | | | | |
| 20 | 10 | 22 | 16 | 50 | 18 | 24 | 14 | 41 | 6 | 28 | h ♂ ♀ | | | | | |
| 21 | 10 | 30 | 16 | 43 | 18 | 54 | 15 | 34 | 7 | 3 | ☉ ∠ ♀ | | | | | |
| 22 | 10 | 37 | 16 | 36 | 19 | 24 | 16 | 27 | 7 | 40 | N Δ ♀ | | * | * | Δ | * |
| 23 | 10 | 45 | 16 | 29 | 19 | 54 | 17 | 19 | 8 | 21 | | | | | | |
| 24 | 10 | 52 | 16 | 22 | 20 | 24 | 18 | 10 | 9 | 7 | | * | □ | □ | | |
| 25 | 10 | 59 | 16 | 15 | 20 | 54 | 19 | 1 | 9 | 55 | | | | | ♂ | |
| 26 | 11 | 7 | 16 | 8 | 21 | 24 | 19 | 51 | 10 | 49 | h ♂ ♀ | □ | | | | |
| 27 | 11 | 14 | 16 | 1 | 21 | 55 | 20 | 40 | 11 | 45 | | | | | | |
| 28 | 11 | 21 | 15 | 55 | 22 | 26 | 21 | 29 | 12 | 44 | | Δ | | | | |
| 29 | 11 | 28 | 15 | 48 | 22 | 56 | 22 | 17 | 13 | 47 | h P h | | | | | |
| 30 | 11 | 35 | 15 | 42 | 23 | 27 | 23 | 4 | 14 | 53 | | | | | | |
| 31 | 11 | 42 | 15 | 36 | 23 | 58 | 23 | 50 | 16 | 1 | N ♂ ♀ | | | | | |

| 12 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1852.] | |
|----------------|-------------------|-----------------------------------|-----------|---------|------------|-------------|------------|-----------|-------------|------------|------------|---------|---|
| JUNE XXX DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 0 S 28 | 13 N 15 | 2 S 11 | 13 N 19 | 1 N 12 | 15 S 21 | | | | | |
| 4 | 15 | 47 | 0 28 | 13 18 | 2 12 | 13 25 | 1 11 | 15 16 | | | | | |
| 7 | 15 | 46 | 0 28 | 13 21 | 2 12 | 13 31 | 1 10 | 15 13 | | | | | |
| 10 | 15 | 46 | 0 28 | 13 24 | 2 12 | 13 37 | 1 9 | 15 8 | | | | | |
| 13 | 15 | 46 | 0 28 | 13 26 | 2 13 | 13 42 | 1 9 | 15 4 | | | | | |
| 16 | 15 | 46 | 0 28 | 13 29 | 2 13 | 13 48 | 1 8 | 15 1 | | | | | |
| 19 | 15 | 45 | 0 28 | 13 31 | 2 13 | 13 53 | 1 8 | 14 53 | | | | | |
| 22 | 15 | 45 | 0 28 | 13 34 | 2 14 | 13 58 | 1 7 | 14 56 | | | | | |
| 25 | 15 | 45 | 0 28 | 13 36 | 2 14 | 14 3 | 1 6 | 14 54 | | | | | |
| 28 | 15 | 45 | 0 28 | 13 38 | 2 14 | 14 8 | 1 6 | 14 52 | | | | | |
| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | " | |
| 1 | Tu | 4 | 40 | 29 | 11 | 11 | 4 20 | 22 N 7 | 0 7 36 | 3 N 11 | 17 S 11 | 6 30 | |
| 2 | W | 4 | 44 | 25 | 12 | 1 | 45 | 22 15 15 | 10 2 20 | 20 37 | 6 33 | | |
| 3 | Th | 4 | 48 | 22 | 12 | 59 | 9 22 | 22 29 26 | 0 47 22 | 40 6 | 36 | | |
| 4 | F | 4 | 52 | 18 | 13 | 56 | 32 | 22 29 13 | 20 0 S 29 | 23 16 | 6 39 | | |
| 5 | S | 4 | 56 | 15 | 14 | 53 | 55 | 22 36 26 | 50 1 42 | 22 28 | 6 42 | | |
| 6 | S | 5 | 0 | 11 | 15 | 51 | 16 | 22 42 9 | 55 2 47 | 20 27 | 6 45 | | |
| 7 | M | 5 | 4 | 8 | 16 | 48 | 37 | 22 48 22 | 39 3 41 | 17 28 | 6 48 | | |
| 8 | Tu | 5 | 8 | 5 | 17 | 45 | 58 | 22 54 5 | 3 4 24 | 13 46 | 6 51 | | |
| 9 | W | 5 | 12 | 1 | 18 | 43 | 18 | 22 59 17 | 13 4 55 | 9 34 | 6 54 | | |
| 10 | Th | 5 | 15 | 58 | 19 | 40 | 38 | 23 3 29 | 13 5 11 | 5 4 | 6 56 | | |
| 11 | F | 5 | 19 | 54 | 20 | 37 | 57 | 23 8 11 | 7 6 5 | 0 26 | 6 59 | | |
| 12 | S | 5 | 23 | 51 | 21 | 35 | 16 | 23 11 22 | 59 5 5 | 4 N 13 | 7 2 | | |
| 13 | S | 5 | 27 | 47 | 22 | 32 | 34 | 23 15 4 | 54 4 41 | 8 45 | 7 4 | | |
| 14 | M | 5 | 31 | 44 | 23 | 29 | 53 | 23 18 16 | 55 4 6 | 12 59 | 7 7 | | |
| 15 | Tu | 5 | 35 | 40 | 24 | 27 | 10 | 23 20 29 | 6 3 18 | 16 45 | 7 9 | | |
| 16 | W | 5 | 39 | 37 | 25 | 24 | 28 | 23 23 11 | 27 2 21 | 19 51 | 7 11 | | |
| 17 | Th | 5 | 43 | 34 | 26 | 21 | 44 | 23 24 24 | 1 1 16 | 22 3 | 7 13 | | |
| 18 | F | 5 | 47 | 30 | 27 | 19 | 1 | 23 26 6 | 549 0 6 | 23 11 | 7 16 | | |
| 19 | S | 5 | 51 | 27 | 28 | 16 | 16 | 23 27 19 | 50 1 N 6 | 23 4 | 7 19 | | |
| 20 | S | 5 | 55 | 23 | 29 | 13 | 32 | 23 27 3 | Ω 6 2 | 15 21 | 40 7 21 | | |
| 21 | M | 5 | 59 | 20 | 0 | 5 | 10 | 23 27 16 | 84 3 18 | 19 2 | 7 24 | | |
| 22 | Tu | 6 | 3 | 16 | 1 | 8 | 0 | 23 27 0 | 16 4 11 | 15 18 | 7 26 | | |
| 23 | W | 6 | 7 | 13 | 2 | 5 | 14 | 23 27 14 | 9 4 50 | 10 42 | 7 28 | | |
| 24 | Th | 6 | 11 | 9 | 3 | 2 | 27 | 23 25 28 | 12 5 12 | 5 29 | 7 31 | | |
| 25 | F | 6 | 15 | 6 | 3 | 59 | 39 | 23 24 12 | 25 5 16 | 0 S 4 | 7 33 | | |
| 26 | S | 6 | 19 | 3 | 4 | 56 | 51 | 23 22 26 | 44 5 0 | 5 39 | 7 35 | | |
| 27 | S | 6 | 22 | 59 | 5 | 54 | 3 | 23 20 11 | 16 7 4 | 25 10 | 53 7 38 | | |
| 28 | M | 6 | 26 | 56 | 6 | 51 | 14 | 23 17 25 | 30 3 34 | 15 41 | 7 40 | | |
| 29 | Tu | 6 | 30 | 52 | 7 | 48 | 24 | 23 14 9 | 7 47 | 2 30 | 19 28 7 42 | | |
| 30 | W | 6 | 34 | 49 | 8 | 45 | 35 | 23 10 23 | 56 1 17 | 22 2 | 7 44 | | |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 23 | 14 N 41 | 2 N 36 | 23 N 48 | 3 S 10 | 18 N 57 | 9 27 |
| 4 | 1 20 | 14 6 | 2 24 | 23 11 | 2 51 | 15 19 | 9 18 |
| 7 | 1 17 | 13 30 | 2 9 | 22 32 | 2 26 | 16 47 | 9 8 |
| 10 | 1 14 | 12 54 | 1 58 | 21 52 | 1 56 | 18 19 | 8 59 |
| 13 | 1 11 | 12 17 | 1 32 | 21 10 | 1 26 | 19 50 | 8 49 |
| 16 | 1 8 | 11 39 | 1 9 | 20 28 | | | 8 40 |
| 19 | 1 6 | 11 0 | 0 44 | 19 46 | | | 8 30 |
| 22 | 1 2 | 10 21 | 0 15 | 19 4 | | | 8 21 |
| 25 | 1 0 | 9 40 | 0 8 17 | 18 24 | | | 8 11 |
| 28 | 0 57 | 8 59 | 0 51 | 17 46 | | | 8 2 |

| D
M | h | | M | | J | | V | | S | | Aspects. | |
|--------|----------|-------|-------|-------|---------|-------|-------|-------|-------|-------|----------|----------|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Aspects. | Aspects. |
| 1 | 11 8 49 | 15 29 | 24 29 | 24 35 | 17 8 14 | | | | | | | |
| 2 | 11 56 | 16 23 | 25 0 | 25 20 | 18 28 | ♂ P ♂ | ♂ | | | | | |
| 3 | 12 8 15 | 17 25 | 32 26 | 4 19 | 47 | ♂ P ♀ | | Δ | Δ | * | | |
| 4 | 12 10 15 | 11 26 | 4 26 | 46 21 | 7 | ♂ P ♀ | | | | | | |
| 5 | 12 17 15 | 5 26 | 35 27 | 27 22 | 31 | | | | | | | |
| 6 | 12 24 14 | 59 27 | 7 28 | 7 23 | 57 | | | | | | | |
| 7 | 12 31 14 | 54 27 | 39 28 | 46 25 | 27 | ♂ P h | Δ | | | | | |
| 8 | 12 38 14 | 48 28 | 11 29 | 24 26 | 59 | | | * | | | | |
| 9 | 12 44 14 | 43 28 | 43 0 | 1 28 | 34 | ♂ □ ♀ | □ | | * | Δ | | |
| 10 | 12 51 14 | 38 29 | 16 0 | 37 0 | 12 | ♀ * ♀ | | | | | Δ | * |
| 11 | 12 58 14 | 39 29 | 48 1 | 11 1 | 53 | | | | | | | |
| 12 | 13 5 14 | 28 0 | 20 1 | 44 3 | 36 | ☉ ∠ h | h | | | | | |
| 13 | 13 11 14 | 25 0 | 53 2 | 16 5 | 23 | | | ♂ | | | Δ | □ |
| 14 | 13 17 14 | 18 1 | 25 2 | 47 7 | 11 | | | ♂ | | ♂ | | |
| 15 | 13 23 14 | 14 1 | 58 3 | 17 9 | 2 | ♂ P ♀ | | | | | □ | * |
| 16 | 13 30 14 | 10 2 | 31 3 | 44 10 | 56 | | | | | | | ♂ |
| 17 | 13 36 14 | 6 3 | 6 4 | 9 12 | 52 | | ♂ | | | | | |
| 18 | 13 42 14 | 2 3 | 38 4 | 33 14 | 51 | | | * | | | * | |
| 19 | 13 49 13 | 58 4 | 12 4 | 65 16 | 51 | | | | * | Δ | | |
| 20 | 13 55 13 | 54 4 | 16 5 | 15 18 | 55 | h ♂ ♀ | | □ | | | | ♂ |
| 21 | 14 1 13 | 51 5 | 18 5 | 34 21 | 0 | | | | | □ | □ | * |
| 22 | 14 7 13 | 48 5 | 62 5 | 52 23 | 6 | h ∠ ♀ | * | | | | | ♂ |
| 23 | 14 14 13 | 45 6 | 25 6 | 8 25 | 14 | | | | Δ | Δ | * | |
| 24 | 14 20 13 | 42 7 | 0 6 | 19 27 | 23 | | | □ | | | | □ |
| 25 | 14 26 13 | 39 7 | 34 6 | 30 29 | 33 | h Δ ♂ | | | | | | * |
| 26 | 14 32 13 | 36 8 | 8 6 | 39 1 | 48 | | | | | | | Δ |
| 27 | 14 38 13 | 33 8 | 42 6 | 45 3 | 54 | | | Δ | ♂ | ♂ | ♂ | * |
| 28 | 14 42 13 | 31 9 | 16 6 | 50 6 | 5 | | | | | | | □ |
| 29 | 14 48 13 | 29 9 | 50 6 | 52 8 | 16 | h * ♀ | | | | | □ | Δ |
| 30 | 14 53 13 | 27 10 | 24 6 | 51 10 | 25 | ♂ * ♀ | | | | | | |

JULY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 45 | 0 28 | 18 N 40 | 2 15 | 14 N 12 | 1 N 5 | 14 51 |
| 4 | 15 | 45 | 0 28 | 13 42 | 2 16 | 14 16 | 1 4 | 14 51 |
| 7 | 15 | 45 | 0 28 | 13 44 | 2 16 | 14 20 | 1 3 | 14 51 |
| 10 | 15 | 45 | 0 28 | 13 45 | 2 17 | 14 24 | 1 3 | 14 51 |
| 13 | 16 | 45 | 0 28 | 13 47 | 2 17 | 14 28 | 1 2 | 14 52 |
| 16 | " | " | 0 28 | 13 48 | 2 17 | 14 31 | 1 1 | 14 54 |
| 19 | " | " | 0 28 | 13 49 | 2 18 | 14 34 | 1 0 | 14 56 |
| 22 | " | " | 0 28 | 13 50 | 2 18 | 14 37 | 0 59 | 14 56 |
| 25 | " | " | 0 28 | 13 51 | 2 19 | 14 40 | 0 59 | 15 1 |
| 28 | " | " | 0 28 | 13 52 | 2 19 | 14 43 | 0 58 | 15 5 |
| 31 | " | " | 0 28 | 13 53 | 2 20 | 14 44 | 0 58 | 15 8 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 6 38 45 | 9 42 45 | 23 N 6 | 7 52 | 0 N 0 | 23 S 13 | 7 46 |
| 2 | F | 6 42 42 | 10 39 56 | 23 31 31 | 1 15 22 | 58 | 7 48 | |
| 3 | S | 6 46 39 | 11 37 6 | 22 57 4 | 2 24 21 | 23 | 7 50 | |
| 4 | S | 6 50 35 | 12 34 16 | 22 52 17 | 3 24 18 | 43 | 7 52 | |
| 5 | M | 6 54 32 | 13 31 27 | 22 46 0 | 4 12 15 | 12 | 7 54 | |
| 6 | Tu | 6 58 28 | 14 28 38 | 22 40 13 | 4 47 11 | 6 | 7 56 | |
| 7 | W | 7 2 25 | 15 25 49 | 22 34 25 | 5 9 6 | 38 | 7 57 | |
| 8 | Th | 7 6 21 | 16 23 1 | 22 27 7 | 5 16 1 | 59 | 7 59 | |
| 9 | F | 7 10 18 | 17 20 13 | 22 20 19 | 5 10 2 | N 42 | 8 1 | |
| 10 | S | 7 14 14 | 18 17 26 | 22 12 18 | 4 51 7 | 17 | 8 2 | |
| 11 | S | 7 18 11 | 19 14 39 | 22 5 12 | 4 19 11 | 87 | 8 4 | |
| 12 | M | 7 22 8 | 20 11 53 | 21 56 25 | 3 36 15 | 32 | 8 6 | |
| 13 | Tu | 7 26 4 | 21 9 8 | 21 48 7 | 2 42 18 | 53 | 8 8 | |
| 14 | W | 7 30 1 | 22 6 28 | 21 39 19 | 1 39 21 | 25 | 8 9 | |
| 15 | Th | 7 33 57 | 23 3 38 | 21 29 25 | 0 30 22 | 56 | 8 10 | |
| 16 | F | 7 37 54 | 24 0 54 | 21 19 15 | 0 N 42 | 23 | 8 11 | |
| 17 | S | 7 41 50 | 24 58 11 | 21 9 29 | 1 54 22 | 19 | 8 12 | |
| 18 | S | 7 45 47 | 25 55 28 | 20 58 12 | 0 19 53 | 8 | 8 13 | |
| 19 | M | 7 49 43 | 26 52 45 | 20 48 26 | 3 57 16 | 21 | 8 14 | |
| 20 | Tu | 7 53 40 | 27 50 3 | 20 37 10 | 4 40 11 | 52 | 8 16 | |
| 21 | W | 7 57 37 | 28 47 21 | 20 25 24 | 5 7 6 | 42 | 8 17 | |
| 22 | Th | 8 1 33 | 29 44 40 | 20 14 9 | 5 14 1 | 10 | 8 18 | |
| 23 | F | 8 5 30 | 0 41 58 | 20 1 23 | 5 9 4 | S 26 | 8 19 | |
| 24 | S | 8 9 26 | 1 39 18 | 19 48 7 | 4 33 9 | 48 | 8 20 | |
| 25 | S | 8 13 23 | 2 36 38 | 19 36 21 | 3 43 14 | 36 | 8 21 | |
| 26 | M | 8 17 19 | 3 33 58 | 19 23 5 | 2 47 18 | 34 | 8 22 | |
| 27 | Tu | 8 21 16 | 4 31 18 | 19 11 19 | 1 38 21 | 26 | 8 23 | |
| 28 | W | 8 25 12 | 5 28 38 | 19 0 11 | 0 24 23 | 1 | 8 24 | |
| 29 | Th | 8 29 9 | 6 26 1 | 18 48 16 | 0 S 50 | 23 | 8 25 | |
| 30 | F | 8 33 6 | 7 23 24 | 18 26 0 | 1 59 23 | 4 | 8 26 | |
| 31 | S | 8 37 2 | 8 20 47 | 18 12 13 | 3 2 19 | 45 | 8 26 | |

| 1852.] | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | 15 | | | | | |
|-----------------|--------|-----------------------------------|--------|---------|----------|------------------|-----------------|----|---|---|---|---|---|
| JULY XXXI DAYS. | | | | | | | | | | | | | |
| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | | | |
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 0 N 55 | 8 N 18 | 1 S 30 | 17 N 9 | 1 N 31 | 24 N 23 | 7 | 52 | | | | | |
| 4 | 0 52 | 7 36 | 2 10 | 16 36 | 1 44 | 23 50 | 7 | 42 | | | | | |
| 7 | 0 49 | 6 53 | 2 51 | 16 6 | 1 50 | 22 56 | 7 | 33 | | | | | |
| 10 | 0 47 | 6 10 | 3 32 | 15 41 | 1 49 | 21 44 | 7 | 23 | | | | | |
| 13 | 0 44 | 5 26 | 4 14 | 15 19 | 1 44 | 20 18 | 7 | 14 | | | | | |
| 16 | 0 42 | 4 42 | 4 56 | 15 1 | 1 33 | 18 42 | 7 | 4 | | | | | |
| 19 | 0 39 | 3 57 | 5 32 | 14 48 | 1 16 | 16 57 | 6 | 55 | | | | | |
| 22 | 0 37 | 3 12 | 6 3 | 14 39 | 0 57 | 15 8 | 6 | 45 | | | | | |
| 25 | 0 35 | 2 27 | 6 28 | 14 35 | 0 34 | 13 16 | 6 | 36 | | | | | |
| 28 | 0 33 | 1 41 | 6 47 | 14 34 | 0 7 | 11 23 | 6 | 26 | | | | | |
| 31 | 0 30 | 0 55 | 7 0 | 14 36 | 0 S 21 | 9 32 | 6 | 17 | | | | | |
| D
M | h | ♄ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♄ | ♂ | ♀ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 15 8 | 0 13 | 25 10 | 59 6 | Ω 49 | 12 35 | ♄ Δ ♀ | ♂ | Δ | * | Δ | | ♂ |
| 2 | 15 6 | 13 13 | 24 11 | 33 6 | ♄ 44 | 14 44 | h * ♀ | | | Δ | | | |
| 3 | 15 11 | 13 23 | 12 8 | 6 36 | 16 51 | | | □ | | | | ♂ | |
| 4 | 15 16 | 13 22 | 12 43 | 6 26 | 18 58 | ☉ * ♂ | | | □ | □ | | | |
| 5 | 15 21 | 13 21 | 13 17 | 6 14 | 21 2 | ☉ Δ ♄ | | | | | | | |
| 6 | 15 26 | 13 20 | 13 52 | 5 59 | 23 5 | | Δ | * | * | Δ | ♂ | | |
| 7 | 15 31 | 13 20 | 14 27 | 5 42 | 25 7 | ☉ * h | | | | | | | Δ |
| 8 | 15 36 | 13 19 | 15 2 | 5 23 | 27 7 | ☉ P ♀ | | | | | | Δ | |
| 9 | 15 41 | 13 19 | 15 37 | 5 2 | 29 4 | h Δ ♂ | □ | | | | | | |
| 10 | 15 46 | 13 19 | 16 13 | 4 38 | 1 Ω | 1 | | | | | | □ | □ |
| 11 | 15 51 | 13 D 19 | 16 48 | 4 13 | 2 56 | | | ♂ | ♂ | ♂ | Δ | | |
| 12 | 15 56 | 13 19 | 17 24 | 3 46 | 4 49 | ♀ ♂ ♀ | * | | | | | | |
| 13 | 16 1 | 13 20 | 18 0 | 3 16 | 6 39 | ♂ ∠ ♀ | | | | | | * | * |
| 14 | 16 6 | 13 20 | 18 35 | 2 45 | 8 28 | h □ ♀ | | | | | □ | | |
| 15 | 16 11 | 13 21 | 19 10 | 2 12 | 10 14 | | | * | | | | | |
| 16 | 16 15 | 13 22 | 19 46 | 1 38 | 12 0 | | | | * | Δ | * | | |
| 17 | 16 19 | 13 23 | 20 22 | 1 3 | 13 43 | ♄ □ ♀ | ♂ | | | | | ♂ | |
| 18 | 16 23 | 13 24 | 20 58 | 0 27 | 15 24 | | | □ | □ | □ | | | ♂ |
| 19 | 16 27 | 13 26 | 21 34 | 29 50 | 17 4 | h □ ♀ | | | | | | | |
| 20 | 16 31 | 13 28 | 22 10 | 29 13 | 18 42 | | | Δ | Δ | * | | | |
| 21 | 16 35 | 13 30 | 22 46 | 28 36 | 20 18 | ☉ ♂ ♀ | * | | | | ♂ | * | |
| 22 | 16 39 | 13 32 | 23 23 | 27 59 | 21 52 | h □ ♂ | | | | | | | |
| 23 | 16 43 | 13 34 | 23 58 | 27 21 | 23 24 | ♀ P h | | | | | | □ | * |
| 24 | 16 47 | 13 36 | 24 35 | 26 45 | 24 54 | | □ | ♂ | | ♂ | | | |
| 25 | 16 51 | 13 39 | 25 11 | 26 9 | 26 23 | | | | ♂ | | * | Δ | □ |
| 26 | 16 55 | 13 42 | 25 47 | 25 34 | 27 49 | ♂ * ♀ | Δ | | | | | | |
| 27 | 16 58 | 13 45 | 25 24 | 25 0 | 29 13 | | | | | | | | |
| 28 | 17 1 | 13 48 | 27 1 | 24 27 | 0 36 | | | Δ | | | | □ | Δ |
| 29 | 17 4 | 13 51 | 27 38 | 23 56 | 1 57 | | | | Δ | * | | | |
| 30 | 17 7 | 13 54 | 28 15 | 23 27 | 3 16 | | | | | | Δ | ♂ | |
| 31 | 17 10 | 13 58 | 28 52 | 22 59 | 4 33 | ☉ □ h | ♂ | □ | □ | □ | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 47 | 08 29 | 13 N53 | 28 20 | 14 N45 | 0 N57 | 15 S10 |
| 4 | 15 | 47 | 0 29 | 13 53 | 2 22 | 14 46 | 0 56 | 15 14 |
| 7 | 15 | 48 | 0 29 | 13 54 | 2 23 | 14 48 | 0 55 | 15 19 |
| 10 | 15 | 48 | 0 29 | 13 54 | 2 23 | 14 49 | 0 54 | 15 24 |
| 13 | 15 | 49 | 0 29 | 13 54 | 2 24 | 14 50 | 0 54 | 15 30 |
| 16 | 15 | 49 | 0 29 | 13 54 | 2 24 | 14 51 | 0 53 | 15 35 |
| 19 | 15 | 50 | 0 29 | 13 53 | 2 25 | 14 51 | 0 52 | 15 42 |
| 22 | 15 | 50 | 0 29 | 13 53 | 2 25 | 14 51 | 0 52 | 15 48 |
| 25 | 15 | 51 | 0 29 | 13 52 | 2 26 | 14 51 | 0 51 | 15 55 |
| 28 | 15 | 52 | 0 29 | 13 52 | 2 27 | 14 51 | 0 50 | 16 2 |
| 31 | 15 | 52 | 0 29 | 13 51 | 2 28 | 14 50 | 0 50 | 16 10 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 8 40 59 | 9 21 18 | 12 17 N56 | 26 m 5 | 3 S 53 | 16 S 29 | 8 26 |
| 2 | M | 8 44 55 | 10 15 37 | 17 41 | 8 x 40 | 4 38 | 12 32 | 8 27 |
| 3 | Tu | 8 48 52 | 11 13 4 | 17 25 | 21 1 | 4 58 | 8 8 | 8 27 |
| 4 | W | 8 52 48 | 12 10 31 | 17 9 | 3 r 10 | 5 10 | 3 29 | 8 28 |
| 5 | Th | 8 56 45 | 13 8 0 | 16 53 | 15 9 | 5 8 | 1 N14 | 8 28 |
| 6 | F | 9 0 41 | 14 5 31 | 16 37 | 27 3 | 4 53 | 5 53 | 8 28 |
| 7 | S | 9 4 38 | 15 3 2 | 16 20 | 8 55 | 4 25 | 10 18 | 8 29 |
| 8 | S | 9 8 35 | 16 0 35 | 16 3 | 20 51 | 3 46 | 14 21 | 8 29 |
| 9 | M | 9 12 31 | 16 58 10 | 15 46 | 2 54 | 2 56 | 17 53 | 8 30 |
| 10 | Tu | 9 16 28 | 17 55 46 | 15 28 | 15 9 | 1 57 | 20 41 | 8 30 |
| 11 | W | 9 20 24 | 18 53 23 | 15 10 | 27 43 | 0 52 | 22 34 | 8 30 |
| 12 | Th | 9 24 21 | 19 51 2 | 14 52 | 10 57 | 0 N18 | 23 20 | 8 30 |
| 13 | F | 9 28 17 | 20 48 42 | 14 34 | 23 54 | 1 29 | 22 48 | 8 30 |
| 14 | S | 9 32 14 | 21 46 23 | 14 16 | 7 35 | 2 36 | 20 54 | 8 30 |
| 15 | S | 9 36 10 | 22 44 6 | 13 57 | 21 39 | 3 36 | 17 42 | 8 30 |
| 16 | M | 9 40 7 | 23 41 51 | 13 38 | 6 m 1 | 4 24 | 13 24 | 8 30 |
| 17 | Tu | 9 44 4 | 24 39 36 | 13 19 | 20 35 | 4 55 | 8 15 | 8 30 |
| 18 | W | 9 48 0 | 25 37 23 | 12 59 | 5 15 | 5 7 | 2 37 | 8 30 |
| 19 | Th | 9 51 57 | 26 35 11 | 12 40 | 19 52 | 4 59 | 3 S 9 | 8 29 |
| 20 | F | 9 55 53 | 27 33 0 | 12 20 | 4 m 22 | 4 32 | 8 43 | 8 29 |
| 21 | S | 9 59 50 | 28 30 51 | 12 0 | 18 40 | 3 48 | 18 44 | 8 29 |
| 22 | S | 10 3 46 | 29 28 42 | 11 40 | 2 f 43 | 2 52 | 17 55 | 8 28 |
| 23 | M | 10 7 43 | 0 m 26 | 35 11 | 19 16 | 1 46 | 21 1 | 8 28 |
| 24 | Tu | 10 11 39 | 1 24 29 | 10 59 | 0 w 5 | 0 35 | 22 52 | 8 28 |
| 25 | W | 10 15 36 | 2 22 24 | 10 38 | 13 25 | 0 S 36 | 23 23 | 8 27 |
| 26 | Th | 10 19 33 | 3 20 21 | 10 17 | 26 32 | 1 45 | 22 35 | 8 27 |
| 27 | F | 10 23 29 | 4 18 19 | 9 56 | 9 m 27 | 2 46 | 20 34 | 8 26 |
| 28 | S | 10 27 26 | 5 16 19 | 9 35 | 22 12 | 3 38 | 17 34 | 8 25 |
| 29 | S | 10 31 22 | 6 14 20 | 9 14 | 4 x 45 | 4 19 | 13 47 | 8 24 |
| 30 | M | 10 35 19 | 7 12 22 | 8 52 | 17 8 | 4 47 | 9 29 | 8 23 |
| 31 | Tu | 10 39 15 | 8 10 27 | 8 31 | 29 21 | 5 1 | 4 52 | 8 23 |

1852.]

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 0 N 29 | 0 N 39 | 7 S 3 | 14 N 38 | 0 S 31 | 8 N 56 | 6 14 |
| 4 | 0 27 | 0 S 7 | 7 5 | 14 44 | 1 2 | 7 9 | 6 4 |
| 7 | 0 24 | 0 54 | 7 8 | 14 53 | 1 34 | 5 28 | 5 55 |
| 10 | 0 22 | 1 41 | 6 56 | 15 3 | 2 7 | 3 54 | 5 45 |
| 13 | 0 20 | 2 28 | 6 45 | 15 14 | 2 40 | 2 32 | 5 36 |
| 16 | 0 18 | 3 15 | 6 31 | 15 25 | 3 12 | 1 23 | 5 26 |
| 19 | 0 16 | 4 2 | 6 16 | 15 35 | 3 42 | 0 33 | 5 16 |
| 22 | 0 13 | 4 49 | 5 56 | 15 44 | 4 7 | 0 4 | 5 7 |
| 25 | 0 11 | 5 37 | 5 38 | 15 52 | 4 24 | 0 3 | 4 57 |
| 28 | 0 9 | 6 24 | 5 16 | 15 58 | 4 30 | 0 33 | 4 48 |
| 31 | 0 7 | 7 10 | 4 55 | 16 1 | 4 21 | 1 35 | 4 38 |

| D
M | h | Λ | ♂ | ♀ | ♂ | Mutual
Aspts. | Luna | | | etc. | |
|--------|------------|------------|------------|------------|------------|------------------|------|---|---|------|---|
| | | | | | | | ☉ | ☽ | ☿ | ♀ | ♂ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | |
| 1 | 17 8 13 | 14 2 29 | 29 22 | 38 5 | 47 | | | | | | |
| 2 | 17 16 14 | 6 0 22 | 8 10 | 6 59 | ♀ ♁ ♀ | * | | | | | ♂ |
| 3 | 17 19 14 | 10 0 48 | 21 49 | 8 9 | | | | | | Δ | |
| 4 | 17 22 14 | 14 1 20 | 21 30 | 9 17 | | | | | | | |
| 5 | 17 25 14 | 18 1 57 | 21 13 | 10 28 | | | Δ | | | | |
| 6 | 17 28 14 | 23 2 34 | 20 59 | 11 25 | ☉ ☐ ♃ | | | | | | ☐ |
| 7 | 17 30 14 | 28 3 12 | 20 47 | 12 25 | | | | ♂ | ♂ | ♂ | Δ |
| 8 | 17 32 14 | 33 4 49 | 20 38 | 13 22 | | | ☐ | | ♂ | | * |
| 9 | 17 34 14 | 38 5 27 | 20 31 | 14 17 | ♃ * ♀ | | | | | Δ | |
| 10 | 17 36 14 | 43 6 5 | 20 25 | 15 8 | ☉ ☐ ♃ | * | | | | | ☐ |
| 11 | 17 38 14 | 48 5 43 | 20 23 | 15 55 | | | | | | | |
| 12 | 17 40 14 | 54 6 21 | 20 D 23 | 16 40 | | | | ■ | | Δ | * |
| 13 | 17 42 15 | 0 6 59 | 20 26 | 17 22 | ♀ P ♂ | | | | * | | ♂ |
| 14 | 17 43 15 | 6 7 37 | 20 30 | 17 59 | | | | ☐ | | * | |
| 15 | 17 45 15 | 12 8 15 | 20 37 | 18 33 | | | | ♂ | | ☐ | |
| 16 | 17 46 15 | 18 9 53 | 20 45 | 19 2 | | | | | Δ | | |
| 17 | 17 48 15 | 24 9 31 | 20 57 | 19 27 | ☉ ♁ ♂ | | | | Δ | * | ♂ |
| 18 | 17 49 15 | 30 10 9 | 21 10 | 19 48 | | | | | | ♂ | |
| 19 | 17 40 15 | 37 10 48 | 21 25 | 20 3 | | | | * | | | ☐ |
| 20 | 17 51 15 | 44 11 26 | 21 42 | 20 13 | | | | | ♂ | | |
| 21 | 17 52 15 | 51 12 5 | 22 1 | 20 18 | | | | | | ♂ | * |
| 22 | 17 53 15 | 58 12 43 | 22 22 | 20 17 | | | | ☐ | | | |
| 23 | 17 54 16 | 5 13 22 | 22 44 | 20 11 | | | | | | * | ☐ |
| 24 | 17 55 16 | 12 14 1 | 23 8 | 19 59 | | | | Δ | | | |
| 25 | 17 56 16 | 19 14 40 | 23 34 | 19 40 | | | | | Δ | * | ☐ |
| 26 | 17 56 16 | 27 15 19 | 24 2 | 19 16 | | | | | | | ♂ |
| 27 | 17 57 16 | 35 15 58 | 24 31 | 18 45 | | | | | ☐ | | |
| 28 | 17 57 16 | 43 16 36 | 25 1 | 18 9 | | | | | | ☐ | Δ |
| 29 | 17 57 16 | 51 17 16 | 25 33 | 17 27 | | | | ♂ | * | | |
| 30 | 17 58 16 | 59 17 55 | 26 6 | 16 40 | ♃ * ♀ | | | | * | Δ | ♂ |
| 31 | 17 58 17 | 7 18 34 | 26 41 | 15 50 | ☉ Δ ☽ | | | | | | Δ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | / | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 29 | 13 N 51 | 2 S 28 | 14 N 50 | 0 N 50 | 16 S 12 |
| 4 | 15 | 54 | 0 29 | 13 50 | 2 29 | 14 49 | 0 49 | 16 20 |
| 7 | 15 | 54 | 0 29 | 13 49 | 2 29 | 14 48 | 0 49 | 16 28 |
| 10 | 15 | 55 | 0 29 | 13 47 | 2 30 | 14 46 | 0 48 | 16 36 |
| 18 | 15 | 56 | 0 29 | 13 46 | 2 30 | 14 44 | 0 48 | 16 44 |
| 16 | 15 | 56 | 0 29 | 13 44 | 2 31 | 14 43 | 0 47 | 16 53 |
| 19 | 15 | 57 | 0 29 | 13 43 | 2 32 | 14 40 | 0 47 | 17 2 |
| 22 | 15 | 58 | 0 29 | 13 41 | 2 32 | 14 38 | 0 46 | 17 10 |
| 25 | 15 | 59 | 0 29 | 13 39 | 2 32 | 14 35 | 0 46 | 17 19 |
| 28 | 16 | 0 | 0 29 | 13 38 | 2 33 | 14 32 | 0 45 | 17 28 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|---------------------|-------------|--------------------|-----------|-------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 10 43 12 | 9 ^m 8 33 | 8 N 9 | 11 ^r 25 | 5 S 1 | 0 S 6 | 8 ^h 21 |
| 2 | Th | 10 47 8 | 10 6 41 | 7 47 | 23 21 | 4 49 | 4 N 36 | 8 ^h 20 |
| 3 | F | 10 51 5 | 11 4 51 | 7 25 | 5 ^h 13 | 4 23 | 9 8 | 8 19 |
| 4 | S | 10 55 2 | 12 3 3 | 7 3 | 17 3 | 3 47 | 13 19 | 8 18 |
| 5 | S | 10 58 58 | 13 1 17 | 6 41 | 28 56 | 3 0 | 17 0 | 8 17 |
| 6 | M | 11 2 55 | 13 59 33 | 6 18 | 10 ^h 56 | 2 5 | 20 2 | 8 16 |
| 7 | Tu | 11 6 51 | 14 57 51 | 5 56 | 23 9 | 1 4 | 22 13 | 8 15 |
| 8 | W | 11 10 48 | 15 56 11 | 5 33 | 5 ^h 40 | 0 N 2 | 23 23 | 8 14 |
| 9 | Th | 11 14 44 | 16 54 33 | 5 10 | 18 34 | 1 10 | 23 20 | 8 13 |
| 10 | F | 11 18 41 | 17 52 58 | 4 48 | 1 ^h 54 | 2 16 | 21 58 | 8 12 |
| 11 | S | 11 22 37 | 18 51 24 | 4 25 | 15 42 | 3 17 | 19 16 | 8 11 |
| 12 | S | 11 26 34 | 19 49 53 | 4 2 | 29 59 | 4 7 | 15 21 | 8 9 |
| 13 | M | 11 30 30 | 20 48 23 | 3 39 | 14 ^m 38 | 4 43 | 10 24 | 8 8 |
| 14 | Tu | 11 34 27 | 21 46 55 | 3 16 | 29 35 | 5 0 | 4 45 | 8 7 |
| 15 | W | 11 38 24 | 22 45 30 | 2 53 | 14 ^h 39 | 4 56 | 1 S 13 | 8 5 |
| 16 | Th | 11 42 20 | 23 44 6 | 2 29 | 29 40 | 4 32 | 7 7 | 8 4 |
| 17 | F | 11 46 17 | 24 42 43 | 2 6 | 14 ^m 29 | 3 50 | 12 32 | 8 2 |
| 18 | S | 11 50 13 | 25 41 23 | 1 43 | 29 1 | 2 54 | 17 7 | 8 1 |
| 19 | S | 11 54 10 | 26 40 4 | 1 20 | 13 ^h 11 | 1 48 | 20 37 | 7 59 |
| 20 | M | 11 58 6 | 27 38 47 | 0 56 | 26 58 | 0 37 | 22 48 | 7 57 |
| 21 | Tu | 12 2 3 | 28 37 32 | 0 33 | 10 ^h 25 | 0 S 33 | 23 36 | 7 55 |
| 22 | W | 12 5 59 | 29 36 18 | 0 9 | 23 33 | 1 41 | 23 4 | 7 53 |
| 23 | Th | 12 9 56 | 0 ^h 35 6 | 0 S 14 | 6 ^m 24 | 2 42 | 21 18 | 7 51 |
| 24 | F | 12 13 53 | 1 33 56 | 0 37 | 19 3 | 3 34 | 18 30 | 7 49 |
| 25 | S | 12 17 49 | 2 32 48 | 1 1 | 1 ^h 31 | 4 14 | 14 54 | 7 47 |
| 26 | S | 12 21 46 | 3 31 42 | 1 24 | 13 49 | 4 42 | 10 42 | 7 46 |
| 27 | M | 12 25 42 | 4 30 37 | 1 48 | 26 0 | 4 57 | 6 8 | 7 44 |
| 28 | Tu | 12 29 39 | 5 29 34 | 2 11 | 8 ^r 4 | 4 58 | 1 22 | 7 43 |
| 29 | W | 12 33 35 | 6 28 34 | 2 34 | 20 1 | 4 46 | 3 N 25 | 7 40 |
| 30 | Th | 12 37 32 | 7 27 35 | 2 58 | 1 ^h 54 | 4 22 | 8 3 | 7 38 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 6 | 7 8 26 | 4 5 48 | 16 N 1 | 4 8 15 | 2 N 2 | 4 5 35 |
| 4 | 0 4 | 8 12 | 4 26 | 16 0 | 3 44 | 3 37 | 4 26 |
| 7 | 0 2 | 8 59 | 4 5 | 15 55 | 2 57 | 5 22 | 4 16 |
| 10 | 0 8 0 | 9 44 | 3 42 | 15 47 | 2 0 | 7 0 | 4 7 |
| 13 | 0 2 | 10 30 | 3 20 | 15 35 | 1 2 | 8 13 | 3 57 |
| 16 | 0 4 | 11 15 | 2 59 | 15 18 | 0 8 | 8 51 | 3 47 |
| 19 | 0 6 | 11 59 | 2 38 | 14 58 | 0 N 25 | 8 50 | 3 38 |
| 22 | 0 8 | 12 43 | 2 17 | 14 33 | 1 13 | 8 11 | 3 28 |
| 25 | 0 10 | 13 27 | 1 56 | 14 4 | 1 37 | 7 0 | 3 19 |
| 28 | 0 12 | 14 9 | 1 37 | 13 30 | 1 50 | 5 22 | 3 9 |

| D
M | h | | ♄ | | ♅ | | ♆ | | ♇ | | Mutual
Aspts. | Lunar | |
|--------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|------------------|-------|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | ° | ' |
| 1 | 17 55 | 17 15 | 10 18 | 27 51 | 14 55 | | | | | | | | |
| 2 | 17 55 | 17 23 | 19 51 | 27 55 | 18 58 | ☉ P ♄ | | | | | | | |
| 3 | 17 55 | 17 31 | 20 28 | 28 33 | 12 59 | | | | | | | ♄ | |
| 4 | 17 55 | 17 40 | 21 11 | 29 12 | 12 0 | ☉ ♄ ♅ | Δ | | | | | | c |
| 5 | 17 54 | 17 49 | 21 50 | 29 53 | 11 3 | | | | | | | | |
| 6 | 17 53 | 17 58 | 22 29 | 0 2 35 | 10 7 | h ♄ ♅ | □ | | | | | | |
| 7 | 17 53 | 18 7 | 23 9 | 1 18 | 9 16 | | | | | | | | |
| 8 | 17 52 | 18 16 | 23 48 | 2 2 8 | 29 29 | h Δ ♅ | | | | | | * | |
| 9 | 17 51 | 18 23 | 24 2 | 2 46 | 7 48 | | | | | | | * | |
| 10 | 17 50 | 18 34 | 25 8 | 3 82 | 7 14 | ☉ Δ h | | | | | | | |
| 11 | 17 49 | 18 43 | 25 48 | 4 18 | 6 49 | ☉ * ♅ | | □ | □ | □ | | | |
| 12 | 17 48 | 18 53 | 26 28 | 5 6 | 6 32 | | | | | | | * | ♄ |
| 13 | 17 46 | 19 3 | 27 8 | 5 55 | 6 23 | | | ♄ | Δ | Δ | * | | |
| 14 | 17 45 | 19 13 | 27 48 | 6 44 | 6 D 25 | ☉ ♄ ♅ | | | | | | | |
| 15 | 17 42 | 19 23 | 28 30 | 7 33 | 6 36 | ☉ ♄ h | | | | | | | |
| 16 | 17 40 | 19 33 | 29 9 | 8 24 | 6 57 | h □ ♅ | | | | | | | |
| 17 | 17 38 | 19 43 | 29 49 | 9 16 | 7 27 | | | | ♄ | ♄ | ♄ | ♄ | □ * |
| 18 | 17 37 | 19 53 | 0 m 30 | 10 7 | 8 6 | h Δ ♅ | * | | | | | | |
| 19 | 17 35 | 20 3 | 1 11 | 10 59 | 8 53 | | | | | | | | Δ □ |
| 20 | 17 32 | 20 13 | 1 51 | 11 52 | 9 49 | | □ | | | | | * | |
| 21 | 17 29 | 20 23 | 2 32 | 12 46 | 10 51 | ♀ P h | | | | | | | Δ |
| 22 | 17 27 | 20 34 | 3 13 | 13 41 | 12 1 | | | | | | | | |
| 23 | 17 25 | 20 44 | 3 54 | 14 36 | 13 16 | | Δ | □ | | | | | |
| 24 | 17 23 | 20 55 | 4 35 | 15 31 | 14 38 | | | | | | | | ♄ |
| 25 | 17 20 | 21 6 | 5 16 | 16 27 | 16 3 | ☉ ♄ h | | | | | | | |
| 26 | 17 18 | 21 17 | 5 57 | 17 24 | 17 34 | h □ ♅ | | | | | | | ♄ |
| 27 | 17 15 | 21 28 | 6 38 | 18 21 | 19 8 | | | | | | | | |
| 28 | 17 12 | 21 39 | 7 19 | 19 20 | 20 44 | h ♄ ♅ | | | | | | | |
| 29 | 17 9 | 21 50 | 8 0 | 20 18 | 22 24 | | | | | | | | Δ |
| 30 | 17 6 | 22 1 | 8 41 | 21 16 | 24 5 | ♄ ♄ ♅ | | | | | | | |

| 20 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1852. | |
|--------------------|-------------------|-----------------------------------|-----------|---------|----------------------|-------------|-----------------------|-----------|-------------|---------------------|---|--------|---|
| OCTOBER XXXI DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° |
| 1 | 16 | 1 | 0 S 29 | 13 N 36 | 2 S 34 | 14 N 29 | 0 N 45 | 17 S 37 | | | | | |
| 4 | 16 | 1 | 0 29 | 13 33 | 2 34 | 14 26 | 0 44 | 17 46 | | | | | |
| 7 | 16 | 2 | 0 29 | 13 31 | 2 34 | 14 23 | 0 44 | 17 56 | | | | | |
| 10 | 16 | 3 | 0 29 | 13 29 | 2 35 | 14 19 | 0 43 | 18 5 | | | | | |
| 13 | 16 | 4 | 0 29 | 13 27 | 2 35 | 14 16 | 0 43 | 18 14 | | | | | |
| 16 | 16 | 5 | 0 29 | 13 25 | 2 35 | 14 12 | 0 42 | 18 23 | | | | | |
| 19 | 16 | 5 | 0 29 | 13 22 | 2 35 | 14 8 | 0 42 | 18 32 | | | | | |
| 22 | 16 | 6 | 0 29 | 13 20 | 2 35 | 14 4 | 0 42 | 18 42 | | | | | |
| 25 | 16 | 7 | 0 29 | 13 17 | 2 35 | 14 0 | 0 41 | 18 51 | | | | | |
| 28 | 16 | 8 | 0 29 | 13 15 | 2 36 | 13 56 | 0 41 | 19 0 | | | | | |
| 31 | 16 | 9 | 0 29 | 13 13 | 2 36 | 13 51 | 0 40 | 19 9 | | | | | |
| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. | | | |
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° |
| 1 | F | 12 | 41 | 28 | 8 ^h 26 39 | 3 S 21 | 13 ^h 8 44 | 3 S 46 | 12 N 22 | 7 ^h 8 36 | | | |
| 2 | S | 12 | 45 | 25 | 9 25 45 | 3 44 | 25 34 | 3 1 16 | 14 14 | 7 ^h 34 | | | |
| 3 | S | 12 | 49 | 22 | 10 24 53 | 4 8 | 7 ^h 11 26 | 2 7 19 | 29 29 | 7 31 | | | |
| 4 | M | 12 | 53 | 18 | 11 24 3 | 4 31 | 19 25 | 1 7 21 | 55 55 | 7 29 | | | |
| 5 | Tu | 12 | 57 | 15 | 12 23 16 | 4 54 | 1 ^h 5 36 | 0 8 23 | 24 24 | 7 27 | | | |
| 6 | W | 13 | 1 | 11 | 13 22 31 | 5 17 | 14 3 | 1 N 2 23 | 45 45 | 7 24 | | | |
| 7 | Th | 13 | 5 | 8 | 14 21 48 | 5 40 | 26 52 | 2 7 22 | 52 52 | 7 22 | | | |
| 8 | F | 13 | 9 | 4 | 15 21 8 | 6 3 | 10 ^h 2 7 | 3 6 20 | 43 43 | 7 20 | | | |
| 9 | S | 13 | 13 | 1 | 16 20 30 | 6 26 | 23 51 | 3 58 17 | 19 19 | 7 17 | | | |
| 10 | S | 13 | 16 | 57 | 17 19 55 | 6 49 | 8 ^h 11 0 | 4 36 12 | 48 48 | 7 15 | | | |
| 11 | M | 13 | 20 | 54 | 18 19 21 | 7 11 | 22 48 | 4 58 7 | 25 25 | 7 13 | | | |
| 12 | Tu | 13 | 24 | 51 | 19 18 50 | 7 34 | 7 ^h 52 | 5 0 1 | 28 28 | 7 11 | | | |
| 13 | W | 13 | 28 | 47 | 20 18 21 | 7 56 | 28 9 | 4 41 4 | S 39 | 7 9 | | | |
| 14 | Th | 13 | 32 | 44 | 21 17 54 | 8 19 | 8 ^h 11 26 | 4 1 10 | 31 31 | 7 6 | | | |
| 15 | F | 13 | 36 | 40 | 22 17 28 | 8 41 | 23 33 | 3 5 15 | 41 41 | 7 4 | | | |
| 16 | S | 13 | 40 | 37 | 23 17 5 | 9 3 | 8 ^h 11 21 | 1 58 19 | 47 47 | 7 1 | | | |
| 17 | S | 13 | 44 | 33 | 24 16 44 | 9 25 | 22 45 | 0 44 22 | 31 31 | 6 59 | | | |
| 18 | M | 13 | 48 | 30 | 25 16 24 | 9 47 | 6 ^h 11 42 | 0 S 30 | 23 23 | 6 56 | | | |
| 19 | Tu | 13 | 52 | 26 | 26 16 6 | 10 9 | 20 12 | 1 40 23 | 35 35 | 6 54 | | | |
| 20 | W | 13 | 56 | 23 | 27 15 50 | 10 30 | 3 ^h 11 19 | 2 43 22 | 4 4 | 6 52 | | | |
| 21 | Th | 14 | 0 | 19 | 28 15 36 | 10 52 | 16 6 | 3 36 19 | 27 27 | 6 49 | | | |
| 22 | F | 14 | 4 | 16 | 29 15 23 | 11 13 | 28 36 | 4 17 15 | 59 59 | 6 47 | | | |
| 23 | S | 14 | 8 | 13 | 0 ^h 15 12 | 11 34 | 10 ^h 11 58 | 4 46 11 | 54 54 | 6 45 | | | |
| 24 | S | 14 | 12 | 9 | 1 15 2 | 11 55 | 23 1 | 5 1 7 | 23 23 | 6 42 | | | |
| 25 | M | 14 | 16 | 6 | 2 14 55 | 12 16 | 5 ^h 11 2 | 5 3 2 | 38 38 | 6 40 | | | |
| 26 | Tu | 14 | 20 | 2 | 3 14 49 | 12 36 | 16 59 | 4 52 2 | N 11 | 6 37 | | | |
| 27 | W | 14 | 23 | 59 | 4 14 45 | 12 57 | 28 52 | 4 27 6 | 54 54 | 6 35 | | | |
| 28 | Th | 14 | 27 | 55 | 5 14 43 | 13 17 | 10 ^h 11 43 | 3 52 11 | 23 23 | 6 32 | | | |
| 29 | F | 14 | 31 | 52 | 6 14 43 | 13 37 | 22 34 | 3 6 15 | 26 26 | 6 30 | | | |
| 30 | S | 14 | 35 | 48 | 7 14 45 | 13 57 | 4 ^h 11 26 | 2 12 18 | 53 53 | 6 27 | | | |
| 31 | S | 14 | 39 | 45 | 8 14 49 | 14 16 | 16 23 | 1 11 21 | 35 35 | 6 25 | | | |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 S 14 | 14 S 51 | 1 S 18 | 12 N 53 | 1 N 54 | 3 N 25 | 8 30 |
| 4 | 0 16 | 15 32 | 1 0 | 12 11 | 1 52 | 1 18 | 2 50 |
| 7 | 0 18 | 16 12 | 0 42 | 11 25 | 1 44 | 0 S 56 | 2 41 |
| 10 | 0 20 | 16 50 | 0 25 | 10 35 | 1 31 | 3 12 | 2 31 |
| 13 | 0 21 | 17 28 | 0 9 | 9 42 | 1 15 | 5 28 | 2 22 |
| 16 | 0 23 | 18 5 | 0 N 6 | 8 45 | 0 58 | 7 40 | 2 12 |
| 19 | 0 24 | 18 40 | 0 21 | 7 45 | 0 39 | 9 49 | 2 3 |
| 22 | 0 26 | 19 14 | 0 34 | 6 41 | 0 20 | 11 52 | 1 53 |
| 25 | 0 27 | 19 47 | 0 47 | 5 35 | 0 S 1 | 13 50 | 1 44 |
| 28 | 0 29 | 20 18 | 0 59 | 4 27 | 0 21 | 15 41 | 1 34 |
| 31 | 0 31 | 20 48 | 1 10 | 3 16 | 0 41 | 17 24 | 1 24 |

| D
M | h | | n | | g | | L | | ts. | |
|--------|--------|---------|--------|-------|-----------|-------|-------|-------|-------|-------|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. |
| 1 | 17 8 3 | 22 m 12 | 9 m 23 | 21 | | | | | | |
| 2 | 16 59 | 22 29 | 10 4 | 21 | | | | | | |
| 3 | 16 54 | 22 34 | 10 45 | 21 | | | | | | |
| 4 | 16 52 | 22 45 | 11 27 | 21 | | | | | | |
| 5 | 16 48 | 22 57 | 12 8 | 21 | | | | | | |
| 6 | 16 45 | 23 9 | 12 40 | 21 | | | | | | |
| 7 | 16 42 | 23 21 | 13 32 | 21 | | | | | | |
| 8 | 16 38 | 23 33 | 14 13 | 21 | | | | | | |
| 9 | 16 34 | 23 45 | 14 55 | 21 | | | | | | |
| 10 | 16 30 | 23 57 | 15 37 | 21 | | | | | | |
| 11 | 16 26 | 24 9 | 16 19 | 2 | 29 18 | 22 | h 8 8 | | | |
| 12 | 16 22 | 24 21 | 17 1 | 3 | 32 15 | 7 | | | | |
| 13 | 16 18 | 24 33 | 17 43 | 4 | 36 16 | 51 | | | | |
| 14 | 16 14 | 24 45 | 18 25 | 5 | 40 18 | 34 | | | | |
| 15 | 16 10 | 24 57 | 19 6 | 6 | 44 20 | 17 | | | | |
| 16 | 16 6 | 25 9 | 19 50 | 7 | 48 21 | 59 | | | | |
| 17 | 16 2 | 25 21 | 20 32 | 8 | 54 23 | 40 | | | | |
| 18 | 15 58 | 25 33 | 21 15 | 9 | 59 25 | 22 | | | | |
| 19 | 15 53 | 25 46 | 21 58 | 11 | 6 27 | 2 | | | | |
| 20 | 15 49 | 25 56 | 22 40 | 12 | 11 28 | 42 | | | | |
| 21 | 15 44 | 26 11 | 23 23 | 13 | 16 0 m 21 | | | | | |
| 22 | 15 40 | 26 23 | 24 6 | 14 | 23 1 | 59 | | | | |
| 23 | 15 35 | 26 36 | 24 48 | 15 | 29 3 | 37 | | | | |
| 24 | 15 31 | 26 49 | 25 31 | 16 | 36 5 | 15 | | | | |
| 25 | 15 26 | 27 2 | 26 14 | 17 | 43 6 | 52 | | | | |
| 26 | 15 21 | 27 14 | 26 57 | 18 | 50 8 | 28 | | | | |
| 27 | 15 16 | 27 27 | 27 40 | 19 | 57 10 | 4 | | | | |
| 28 | 15 11 | 27 40 | 28 23 | 20 | 5 11 | 39 | | | | |
| 29 | 15 6 | 27 53 | 29 6 | 22 | 13 13 | 14 | | | | |
| 30 | 15 1 | 28 6 | 29 49 | 23 | 14 49 | | | | | |
| 31 | 14 56 | 28 19 | 0 33 | 24 | 20 16 | 23 | | | | |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 8 29 | 13 N 12 | 2 S 36 | 13 N 50 | 0 N 40 | 19 S 12 |
| 4 | 16 | 9 | 0 29 | 13 9 | 2 36 | 13 46 | 0 40 | 19 21 |
| 7 | 16 | 10 | 0 29 | 13 7 | 2 35 | 13 42 | 0 40 | 19 29 |
| 10 | 16 | 11 | 0 29 | 13 5 | 2 35 | 13 38 | 0 40 | 19 38 |
| 13 | 16 | 12 | 0 29 | 13 2 | 2 35 | 13 33 | 0 39 | 19 46 |
| 16 | 16 | 12 | 0 29 | 13 0 | 2 35 | 13 30 | 0 39 | 19 55 |
| 19 | 16 | 13 | 0 29 | 12 58 | 2 34 | 13 26 | 0 39 | 20 3 |
| 22 | 16 | 13 | 0 29 | 12 56 | 2 34 | 13 22 | 0 39 | 20 11 |
| 25 | 16 | 14 | 0 29 | 12 54 | 2 34 | 13 18 | 0 38 | 20 19 |
| 28 | 16 | 14 | 0 29 | 12 52 | 2 33 | 13 15 | 0 38 | 20 26 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 14 43 42 | 9 m 14 54 | 14 S 35 | 28 n 26 | 0 S 7 | 23 N 20 | 6 s 23 |
| 2 | Tu | 14 47 38 | 10 15 21 | 14 54 | 10 s 39 | 0 N 59 | 24 0 | 6 R 20 |
| 3 | W | 14 51 35 | 11 15 12 | 15 13 | 23 7 | 2 3 | 23 30 | 6 18 |
| 4 | Th | 14 55 31 | 12 15 24 | 15 32 | 5 s 53 | 3 3 | 21 46 | 6 15 |
| 5 | F | 14 59 28 | 13 15 39 | 15 50 | 19 3 | 3 55 | 18 50 | 6 13 |
| 6 | S | 15 3 24 | 14 15 55 | 16 8 | 2 m 38 | 4 36 | 14 49 | 6 10 |
| 7 | S | 15 7 21 | 15 16 13 | 16 26 | 16 41 | 5 1 | 9 53 | 6 8 |
| 8 | M | 15 11 17 | 16 16 33 | 16 43 | 1 s 11 | 5 9 | 4 15 | 6 5 |
| 9 | Tu | 15 15 14 | 17 16 56 | 17 0 | 16 5 | 4 57 | 1 S 46 | 6 3 |
| 10 | W | 15 19 11 | 18 17 20 | 17 17 | 1 m 15 | 4 23 | 7 48 | 6 0 |
| 11 | Th | 15 23 7 | 19 17 45 | 17 34 | 16 31 | 3 31 | 13 25 | 5 58 |
| 12 | F | 15 27 4 | 20 18 13 | 17 50 | 1 f 43 | 2 24 | 18 10 | 5 56 |
| 13 | S | 15 31 0 | 21 18 42 | 18 6 | 16 41 | 1 8 | 21 40 | 5 54 |
| 14 | S | 15 34 57 | 22 19 12 | 18 22 | 1 w 16 | 0 S 11 | 23 39 | 5 51 |
| 15 | M | 15 38 53 | 23 19 44 | 18 37 | 15 25 | 1 27 | 24 1 | 5 49 |
| 16 | Tu | 15 42 50 | 24 20 18 | 18 52 | 29 6 | 2 36 | 22 54 | 5 47 |
| 17 | W | 15 46 46 | 25 20 52 | 19 7 | 12 m 20 | 3 34 | 20 32 | 5 44 |
| 18 | Th | 15 50 43 | 26 21 28 | 19 21 | 25 10 | 4 19 | 17 13 | 5 42 |
| 19 | F | 15 54 40 | 27 22 5 | 19 35 | 7 s 41 | 4 51 | 13 12 | 5 40 |
| 20 | S | 15 58 36 | 28 22 44 | 19 49 | 19 55 | 5 9 | 8 43 | 5 37 |
| 21 | S | 16 2 33 | 29 23 23 | 20 2 | 1 r 59 | 5 12 | 3 59 | 5 35 |
| 22 | M | 16 6 29 | 0 f 24 3 | 20 15 | 13 55 | 5 2 | 0 N 51 | 5 32 |
| 23 | Tu | 16 10 26 | 1 24 45 | 20 28 | 25 47 | 4 39 | 5 38 | 5 31 |
| 24 | W | 16 14 22 | 2 25 28 | 20 40 | 7 s 37 | 4 5 | 10 12 | 5 28 |
| 25 | Th | 16 18 19 | 3 26 12 | 20 52 | 19 29 | 3 19 | 14 25 | 5 27 |
| 26 | F | 16 22 15 | 4 26 57 | 21 3 | 1 n 24 | 2 25 | 18 6 | 5 25 |
| 27 | S | 16 26 12 | 5 27 43 | 21 14 | 13 24 | 1 23 | 21 3 | 5 23 |
| 28 | S | 16 30 9 | 6 28 31 | 21 24 | 25 30 | 0 18 | 23 5 | 5 21 |
| 29 | M | 16 34 5 | 7 29 20 | 21 35 | 7 s 45 | 0 N 50 | 24 3 | 5 19 |
| 30 | Tu | 16 38 2 | 8 30 10 | 21 44 | 20 10 | 1 56 | 23 51 | 5 17 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 8 32 | 20 S 57 | 1 N 13 | 2 N 52 | 0 S 48 | 17 S 57 | 1 25 21 |
| 4 | 0 33 | 21 25 | 1 28 | 1 39 | 1 6 | 19 30 | 1 11 |
| 7 | 0 35 | 21 50 | 1 32 | 0 24 | 1 23 | 20 54 | 1 3 |
| 10 | 0 36 | 22 14 | 1 39 | 0 S 52 | 1 41 | 22 10 | 0 58 |
| 13 | 0 38 | 22 36 | 1 45 | 2 10 | 1 55 | 23 15 | 0 48 |
| 16 | 0 39 | 22 56 | 1 51 | 3 27 | 2 7 | 24 10 | 0 34 |
| 19 | 0 41 | 23 14 | 1 56 | 4 45 | 2 17 | 24 53 | 0 24 |
| 22 | 0 42 | 23 30 | 2 0 | 6 3 | 2 25 | 25 25 | 0 15 |
| 25 | 0 44 | 23 44 | 2 3 | 7 20 | 2 27 | 25 44 | 0 5 |
| 28 | 0 45 | 23 55 | 2 4 | 8 37 | 2 25 | 25 51 | 29 55 |

[illegible]

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 15 | 0 S 29 | 12 N 50 | 2 S 33 | 13 N 12 | 0 N 38 | 20 S 34 |
| 4 | 16 | 15 | 0 29 | 12 48 | 2 32 | 13 9 | 0 38 | 20 41 |
| 7 | 16 | 16 | 0 29 | 12 46 | 2 31 | 13 6 | 0 38 | 20 48 |
| 10 | 16 | 16 | 0 29 | 12 45 | 2 31 | 13 3 | 0 37 | 20 55 |
| 13 | 16 | 16 | 0 28 | 12 43 | 2 30 | 13 1 | 0 37 | 21 2 |
| 16 | 16 | 17 | 0 28 | 12 42 | 2 29 | 12 59 | 0 37 | 21 8 |
| 19 | 16 | 17 | 0 28 | 12 41 | 2 29 | 12 57 | 0 37 | 21 15 |
| 22 | 16 | 17 | 0 28 | 12 40 | 2 28 | 12 56 | 0 37 | 21 21 |
| 25 | 16 | 17 | 0 28 | 12 39 | 2 27 | 12 55 | 0 37 | 21 26 |
| 28 | 16 | 17 | 0 28 | 12 38 | 2 26 | 12 54 | 0 36 | 21 32 |
| 31 | 16 | 17 | 0 28 | 12 37 | 2 26 | 12 53 | 0 36 | 21 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 16 41 58 | 9 ♄ 31 | 2 21 S 54 | 2 ♄ 48 | 2 N 57 | 22 N 25 | 5 15 |
| 2 | Th | 16 45 55 | 10 31 55 | 22 3 15 | 41 3 51 | 19 50 | 5 13 | 5 13 |
| 3 | F | 16 49 51 | 11 32 49 | 22 11 28 | 51 4 34 | 16 10 | 5 11 | 5 11 |
| 4 | S | 16 53 48 | 12 33 45 | 22 19 12 | m 22 | 5 4 11 | 36 5 9 | 5 9 |
| 5 | S | 16 57 45 | 13 34 42 | 22 27 26 | 14 5 16 | 6 20 | 5 7 | 5 7 |
| 6 | M | 17 1 41 | 14 35 40 | 22 34 10 | 27 5 10 | 0 37 | 5 6 | 5 6 |
| 7 | Tu | 17 5 38 | 15 36 39 | 22 41 25 | 0 4 44 | 5 S 16 | 5 4 | 5 4 |
| 8 | W | 17 9 34 | 16 37 40 | 22 47 9 | m 48 | 8 59 | 10 59 | 5 3 |
| 9 | Th | 17 13 31 | 17 38 41 | 22 53 24 | 45 2 57 | 16 6 | 5 2 | 5 2 |
| 10 | F | 17 17 27 | 18 39 44 | 22 58 9 | ♄ 42 | 1 43 | 20 13 | 5 0 |
| 11 | S | 17 21 24 | 19 40 47 | 23 3 24 | 32 0 23 | 22 58 | 4 58 | 4 58 |
| 12 | S | 17 25 20 | 20 41 51 | 23 8 9 | w 7 | 0 S 58 | 24 6 | 4 56 |
| 13 | M | 17 29 17 | 21 42 56 | 23 12 23 | 20 2 13 | 23 37 | 4 54 | 4 54 |
| 14 | Tu | 17 33 14 | 22 44 2 | 23 16 7 | m 8 | 3 18 | 21 41 | 4 53 |
| 15 | W | 17 37 10 | 23 45 7 | 23 19 20 | 31 4 10 | 18 36 | 4 52 | 4 52 |
| 16 | Th | 17 41 7 | 24 46 14 | 23 21 3 | 28 4 47 | 14 42 | 4 51 | 4 51 |
| 17 | F | 17 45 3 | 25 47 20 | 23 23 16 | 4 5 10 | 10 15 | 4 50 | 4 50 |
| 18 | S | 17 49 0 | 26 48 27 | 23 25 28 | 22 5 18 | 5 30 | 4 49 | 4 49 |
| 19 | S | 17 52 56 | 27 49 34 | 23 26 10 | r 26 | 5 11 | 0 38 | 4 47 |
| 20 | M | 17 56 53 | 28 50 41 | 23 27 22 | 21 4 51 | 4 N 12 | 4 46 | 4 46 |
| 21 | Tu | 18 0 49 | 29 51 48 | 23 28 4 | 12 4 19 | 8 52 | 4 45 | 4 45 |
| 22 | W | 18 4 46 | 0 w 52 | 23 27 16 | 2 3 36 | 13 12 | 4 44 | 4 44 |
| 23 | Th | 18 8 43 | 1 54 3 | 23 27 27 | 55 2 43 | 17 4 | 4 43 | 4 43 |
| 24 | F | 18 12 39 | 2 55 11 | 23 26 9 | π 55 | 1 43 | 20 16 | 4 41 |
| 25 | S | 18 16 36 | 3 56 19 | 23 24 22 | 4 0 37 | 22 36 | 4 40 | 4 40 |
| 26 | S | 18 20 32 | 4 57 27 | 23 22 4 | 24 0 N 31 | 23 54 | 4 39 | 4 39 |
| 27 | M | 18 24 29 | 5 58 35 | 23 19 16 | 56 1 39 | 24 1 | 4 38 | 4 38 |
| 28 | Tu | 18 28 25 | 6 59 44 | 23 16 29 | 41 2 43 | 22 54 | 4 38 | 4 38 |
| 29 | W | 18 32 22 | 8 0 53 | 23 13 12 | Ω 39 | 3 40 | 20 32 | 4 37 |
| 30 | Th | 18 36 18 | 9 2 2 | 23 9 25 | 50 4 26 | 17 5 | 4 36 | 4 36 |
| 31 | F | 18 40 15 | 10 3 11 | 23 5 9 | m 15 | 4 59 | 12 43 | 4 36 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|---------|---------|---------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' |
| 1 | 0 S 47 | 24 S 5 | 2 N 5 | 9 S 52 | 2 S 16 | 25 S 44 | 29 II 46 |
| 4 | 0 48 | 24 12 | 2 5 | 11 7 | 2 0 | 25 25 | 29 36 |
| 7 | 0 49 | 24 16 | 2 4 | 12 19 | 1 34 | 24 54 | 29 27 |
| 10 | 0 50 | 24 18 | 2 2 | 13 29 | 0 56 | 24 14 | 29 17 |
| 13 | 0 51 | 24 18 | 2 0 | 14 36 | 0 7 | 23 26 | 29 8 |
| 16 | 0 52 | 24 16 | 1 56 | 15 41 | 0 N 51 | 22 33 | 28 58 |
| 19 | 0 53 | 24 11 | 1 52 | 16 42 | 1 50 | 21 38 | 28 49 |
| 22 | 0 54 | 24 3 | 1 48 | 17 39 | 2 37 | 20 49 | 28 39 |
| 25 | 0 56 | 23 53 | 1 43 | 18 33 | 3 3 | 20 15 | 28 30 |
| 28 | 0 57 | 23 41 | 1 37 | 19 22 | 3 9 | 20 2 | 28 20 |
| 31 | 0 59 | 23 26 | 1 31 | 20 7 | 2 59 | 20 10 | 28 11 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 12 34 | 5 11 | 23 23 | 0 58 | 0 38 | | | | ☐ | | Δ | | ☐ | |
| 2 | 12 30 | 5 25 | 24 8 | 2 10 | 1 37 | | | Δ | | ☐ | | | | |
| 3 | 12 26 | 5 38 | 24 53 | 3 23 | 2 37 | | | | Δ | | ☐ | Δ | * | Δ |
| 4 | 12 22 | 5 51 | 25 39 | 4 36 | 3 32 | ☿ ♂ | | ☐ | | Δ | | | | |
| 5 | 12 18 | 6 5 | 26 24 | 5 49 | 4 23 | | | | | | | ☐ | | |
| 6 | 12 14 | 6 18 | 27 9 | 7 2 | 5 7 | ☿ Δ ♀ | * | | | | * | | | ☐ |
| 7 | 12 10 | 6 32 | 27 55 | 8 15 | 5 45 | | | | | | | | | |
| 8 | 12 6 | 6 45 | 28 40 | 9 27 | 6 15 | | | ♂ | ♂ | | * | | * | |
| 9 | 12 2 | 6 59 | 29 25 | 10 41 | 6 37 | | | | | | ♂ | | ♂ | |
| 10 | 11 59 | 7 12 | 0 11 | 11 54 | 6 49 | ♂ ♀ | | | | ♂ | | | | |
| 11 | 11 56 | 7 25 | 0 56 | 13 7 | 6 52 | ☉ ☐ ☿ | ♂ | | | | ♂ | * | ♂ | |
| 12 | 11 53 | 7 38 | 1 42 | 14 20 | 6 43 | | | | Δ | Δ | | | * | ♂ |
| 13 | 11 50 | 7 51 | 2 28 | 15 33 | 6 24 | | | | | | | | | |
| 14 | 11 47 | 8 5 | 3 14 | 16 46 | 5 53 | | | | ☐ | ☐ | * | | | |
| 15 | 11 44 | 8 18 | 3 59 | 17 59 | 5 10 | ☿ Δ ♀ | * | | | | | | ☐ | |
| 16 | 11 41 | 8 31 | 4 45 | 19 13 | 4 18 | ☿ Δ ♂ | | * | | ☐ | * | | * | |
| 17 | 11 38 | 8 44 | 5 31 | 20 26 | 3 14 | ♂ ♀ | | | * | | | Δ | | |
| 18 | 11 35 | 8 57 | 6 17 | 21 39 | 2 1 | ☉ ☐ ♀ | ☐ | | | | | | | ☐ |
| 19 | 11 33 | 9 10 | 7 3 | 22 53 | 0 44 | | | | | | Δ | ☐ | | |
| 20 | 11 30 | 9 24 | 7 49 | 24 6 | 29 22 | ☉ ♂ ♀ | | | | | | | | |
| 21 | 11 28 | 9 37 | 8 35 | 25 20 | 28 0 | | | Δ | ♂ | | | Δ | | Δ |
| 22 | 11 26 | 9 50 | 9 21 | 26 34 | 26 39 | ♂ ☐ ♀ | | | | ♂ | | | | |
| 23 | 11 24 | 10 3 | 10 7 | 27 48 | 25 24 | | | | | | | | ♂ | |
| 24 | 11 22 | 10 16 | 10 53 | 29 2 | 24 13 | | | | | | ♂ | | | |
| 25 | 11 20 | 10 29 | 11 40 | 0 16 | 23 11 | ♂ Δ ♂ | | | | | | | | ♂ |
| 26 | 11 18 | 10 42 | 12 26 | 1 30 | 22 20 | ☉ Δ ☿ | ♂ | * | | | | | | |
| 27 | 11 16 | 10 55 | 13 12 | 2 44 | 21 38 | | | | | * | | ♂ | | |
| 28 | 11 14 | 11 8 | 13 58 | 3 58 | 21 7 | | | | ☐ | | | | Δ | |
| 29 | 11 12 | 11 21 | 14 44 | 5 12 | 20 46 | | | | | ☐ | Δ | | | |
| 30 | 11 11 | 11 34 | 15 30 | 6 26 | 20 36 | | | | | | | | | Δ |
| 31 | 11 10 | 11 46 | 16 17 | 7 40 | 20 34 | | | Δ | Δ | Δ | ☐ | | ☐ | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | γ | δ | ι | ° | ' | ° | ' | | | | δ | ι | Ϛ | ° | ' | ° | ' |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ' | H. | M. | S. | ° | ° | ° | ° | ' | ° | ' |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 32 | 5 | 28 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 28 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 28 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 6 | 2 | 8 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 2 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 23 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 26 | 11 | 22 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 48 | 13 | 8 |
| 0 | 44 | 8 | 12 | 23 | 4 | 5 | 58 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 9 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 0 | 26 | 48 | 15 | 11 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 3 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 14 |
| 1 | 10 | 7 | 19 | II | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 20 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 0 | 5 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 12 | 12 | 22 | 29 | 21 | 3 | 18 | 19 | 22 | 1 | 6 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 30 | 22 | 3 | 22 | 23 | 23 | 2 | 7 | 2 | 59 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 3 | 26 | 29 | 24 | 3 | 8 | 3 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 4 | 8 | 4 | 23 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 2 | 25 | 3 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 26 | 22 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 6 | 10 | 5 | 47 | 26 | 23 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 24 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 25 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 28 | 26 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ι | Ϛ | Ω | ° | ' | ° | ' | | | | Ϛ | Ω | Ϙ | ° | ' | ° | ' |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ' | H. | M. | S. | ° | ° | ° | ° | ' | ° | ' |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 28 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 22 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 43 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 13 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 13 | 5 | 14 | 16 | 11 | 30 | 2 | 30 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 25 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 28 |
| 4 | 20 | 40 | 7 | 15 | 18 | 12 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 29 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | 30 | 30 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 1 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 29 | 2 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 3 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 3 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 43 | 4 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 5 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 5 | 7 |
| 4 | 59 | 10 | 16 | 24 | 25 | 19 | 33 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 20 | 11 | 56 | 6 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 7 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 8 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 0 | 11 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 26 | 23 | 14 | 52 | 10 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 36 | 10 | 13 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 20 | 11 | 14 |
| 5 | 29 | 30 | 23 | 30 | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 12 | 15 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 13 | 16 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 28 | 18 | 30 | 14 | 16 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 1 | 28 | 19 | 13 | 15 | 17 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 2 | 29 | 19 | 57 | 15 | 18 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 3 | 30 | 20 | 40 | 16 | 19 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 4 | 1 | 21 | 28 | 17 | 20 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 45 | 30 | 5 | 2 | 22 | 8 | 18 | 21 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|------|----|----|
| | | | Ω | μ | ⊖ | ⊖ | / | μ | † | | | | μ | μ | ⊖ | ⊖ | / | μ | † |
| H. | M. | S. | ° | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° | ° |
| 8 | 8 | 45 | 0 | 5 | 2 | 23 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | μ | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | μ | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | μ |
| 8 | 57 | 52 | 12 | 16 | 11 | Om | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | † | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 58 | 21 | 20 | 10 | 25 | 59 | 29 | 11 |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 13 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | μ | 13 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 53 | 24 | 22 | 12 | 27 | 53 | 0 | 14 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 15 |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 17 |
| 10 | 0 | 48 | 28 | ⊖ | 24 | 11 | 9 | 10 | 18 | 11 | 52 | 49 | 28 | 25 | 15 | 0 | † 35 | 4 | 18 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 20 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 21 |
| Right Asc.
of Meridian. | | | ⊖ | ⊖ | μ | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | μ | μ | † | Ascen | | 2 | 3 |
| | | | ° | ° | ° | ° | / | ° | ° | | | | ° | ° | ° | ° | / | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 13 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 3 | 40 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 13 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 29 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 13 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | † |
| 12 | 11 | 0 | 3 | μ | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 29 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 13 | 3 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 28 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 25 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 7 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | μ | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 23 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | Om | 45 | 20 | 9 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | † | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 46 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 25 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 26 | 29 | 18 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | μ | 19 |
| 13 | 2 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 20 |
| 13 | 6 | 23 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 21 |
| 13 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 38 | 6 | 23 |
| 13 | 13 | 51 | 20 | 13 | † | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 13 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 13 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 13 | 25 | 6 | 23 | 15 | 2 | 17 | 38 | 29 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 29 |
| 13 | 29 | 52 | 24 | 16 | 3 | 18 | 25 | μ | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 30 |
| 13 | 32 | 28 | 25 | 17 | 4 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 3 |
| 13 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 22 | 15 | 34 | 41 | 26 | 14 | μ | 18 | 53 | 19 | 4 |
| 13 | 40 | 12 | 27 | 19 | 6 | 20 | 43 | 3 | 23 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 5 |
| 13 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 24 | 15 | 42 | 57 | 28 | 16 | 2 | 21 | 28 | 22 | 6 |
| 13 | 47 | 48 | 29 | 21 | 7 | 22 | 18 | 5 | 25 | 15 | 47 | 6 | 29 | 16 | 3 | 22 | 50 | 24 | 7 |
| 13 | 51 | 37 | 30 | 22 | 8 | 23 | 4 | 6 | 26 | 15 | 51 | 15 | 30 | 17 | 4 | 23 | 12 | 25 | 8 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
T | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
T | | 2 | 3 |
|----------------------------|----|----|----|----|----|------------|----|----|----|----------------------------|----|----|----|----|----|------------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 22 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 20 | 10 | 18 | 8 | 43 | 2 | 19 | 13 | 5 | 46 | 23 | 15 |
| 16 | 3 | 46 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 36 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | 29 | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 23 | 18 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 56 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 39 | 11 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 23 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 2 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 24 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 28 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 3 | 6 | 58 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 12 | 30 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 8 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 25 | 0 | 7 | 2 | 30 | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 29 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 3 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 24 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 23 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 22 | 26 | 52 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 13 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 49 | 23 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 1 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 7 | 2 | 51 | 25 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 12 | 20 | 8 | 45 | 30 | 23 | 3 | 5 | 47 | 28 | 13 |
| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
T | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
T | | 2 | 3 |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 22 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 22 | 9 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 22 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 33 | 28 | 14 | 22 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 23 | 10 |
| 20 | 21 | 11 | 3 | 27 | 9 | 9 | 50 | 29 | 15 | 22 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 11 |
| 20 | 25 | 19 | 4 | 28 | 11 | 11 | 7 | 30 | 16 | 22 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 25 | 12 |
| 20 | 29 | 26 | 5 | 29 | 13 | 12 | 23 | 1 | 17 | 22 | 27 | 22 | 5 | 9 | 28 | 10 | 50 | 26 | 13 |
| 20 | 33 | 31 | 6 | 30 | 15 | 13 | 39 | 2 | 18 | 22 | 31 | 9 | 6 | 10 | 29 | 11 | 34 | 26 | 13 |
| 20 | 37 | 37 | 7 | 3 | 17 | 14 | 50 | 3 | 19 | 22 | 34 | 54 | 7 | 12 | 1 | 12 | 22 | 27 | 14 |
| 20 | 41 | 41 | 8 | 3 | 18 | 16 | 0 | 4 | 20 | 22 | 39 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 15 |
| 20 | 45 | 45 | 9 | 4 | 20 | 17 | 8 | 5 | 21 | 22 | 42 | 25 | 9 | 14 | 3 | 13 | 49 | 29 | 16 |
| 20 | 49 | 43 | 10 | 6 | 22 | 18 | 16 | 6 | 22 | 22 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 29 | 17 |
| 20 | 53 | 51 | 11 | 7 | 24 | 19 | 23 | 7 | 23 | 22 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 30 | 18 |
| 20 | 57 | 52 | 12 | 9 | 26 | 20 | 27 | 7 | 23 | 22 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 1 | 18 |
| 21 | 1 | 53 | 13 | 10 | 27 | 21 | 30 | 8 | 24 | 22 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 2 | 19 |
| 21 | 5 | 53 | 14 | 11 | 29 | 22 | 32 | 9 | 25 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 3 | 20 |
| 21 | 9 | 53 | 15 | 12 | 30 | 23 | 32 | 10 | 26 | 23 | 4 | 46 | 15 | 23 | 10 | 18 | 7 | 4 | 21 |
| 21 | 13 | 52 | 16 | 14 | 3 | 24 | 32 | 11 | 27 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 4 | 22 |
| 21 | 17 | 50 | 17 | 15 | 4 | 25 | 30 | 12 | 27 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 5 | 23 |
| 21 | 21 | 47 | 18 | 17 | 6 | 26 | 28 | 12 | 28 | 23 | 15 | 52 | 18 | 26 | 13 | 20 | 12 | 6 | 24 |
| 21 | 25 | 44 | 19 | 18 | 7 | 27 | 24 | 13 | 29 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 6 | 25 |
| 21 | 29 | 40 | 20 | 19 | 9 | 28 | 20 | 14 | 30 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 7 | 26 |
| 21 | 33 | 35 | 21 | 21 | 10 | 29 | 15 | 15 | 1 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 8 | 27 |
| 21 | 37 | 29 | 22 | 23 | 11 | 0 | 9 | 16 | 2 | 23 | 30 | 37 | 22 | 30 | 17 | 23 | 52 | 9 | 27 |
| 21 | 41 | 23 | 23 | 23 | 13 | 1 | 2 | 16 | 3 | 23 | 34 | 18 | 23 | 1 | 18 | 26 | 39 | 9 | 27 |
| 21 | 45 | 16 | 24 | 25 | 15 | 1 | 55 | 17 | 4 | 23 | 37 | 58 | 24 | 2 | 19 | 24 | 12 | 10 | 28 |
| 21 | 49 | 9 | 25 | 26 | 16 | 2 | 47 | 18 | 4 | 23 | 41 | 39 | 25 | 4 | 20 | 24 | 53 | 11 | 29 |
| 21 | 53 | 1 | 26 | 29 | 17 | 3 | 39 | 19 | 5 | 23 | 45 | 19 | 26 | 5 | 21 | 26 | 29 | 11 | 29 |
| 21 | 56 | 52 | 27 | 30 | 19 | 4 | 29 | 20 | 6 | 23 | 49 | 0 | 27 | 6 | 22 | 28 | 11 | 12 | 30 |
| 22 | 0 | 48 | 28 | 31 | 21 | 5 | 18 | 21 | 7 | 23 | 53 | 40 | 28 | 7 | 23 | 29 | 49 | 12 | 30 |
| 22 | 4 | 39 | 29 | 32 | 23 | 6 | 7 | 22 | 8 | 23 | 56 | 29 | 29 | 8 | 24 | 30 | 27 | 13 | 31 |
| 22 | 8 | 30 | 30 | 33 | 25 | 7 | 58 | 23 | 9 | 23 | 59 | 20 | 30 | 9 | 25 | 31 | 27 | 14 | 32 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING and RESTORATIVE Properties**. Hence their invariable success in the **RELIEF and CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.
The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 6d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

All Invalids should read Crosby's Prize Treatise on "**DISEASES OF THE LUNGS AND AIR VESICLES**," a copy of which can be had **Gratis** of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR.

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR.

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdued Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment for this disease."

CROSBY'S BALSAMIC COUGH ELIXIR.

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR.

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR.

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,

CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

Ask your Chemist for the New Edition (GRAYS) of Crosby's Price Treatise on "*DISEASES OF THE LUNGS AND AIR-VESSELS*," containing full and plain instructions for the relief and cure of these diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

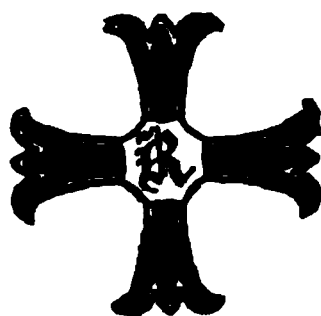
Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1853.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1882.

Price One Shilling.

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Mallbran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Rooke under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. ROOKE, Scarborough, England.

DR. ROOKE'S ANTI-LANCET.

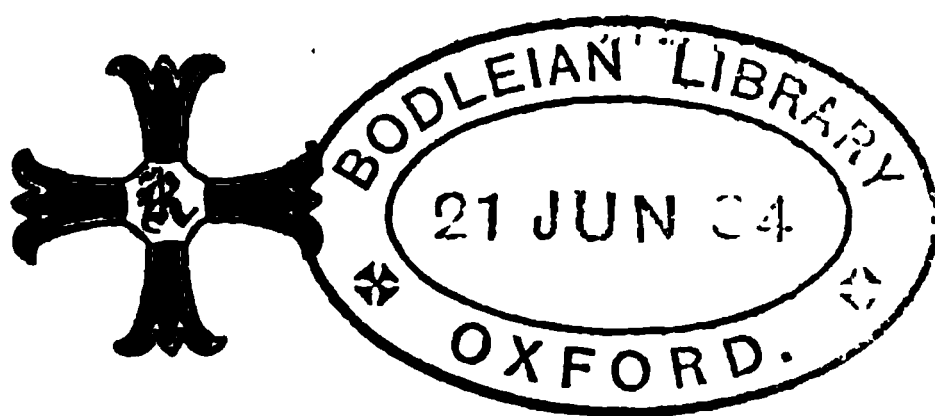
Ask your Chemist for a copy (gratis) of the last edition, containing 173 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1853.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1882.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------|----------------------|-------------|--------------------|-----------|-------------|------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 18 | 0 S 28 | 12 N 37 | 2 S 25 | 12 N 53 | 0 N 36 | 21 S 39 |
| 4 | 16 | 18 | 0 28 | 12 37 | 2 24 | 12 53 | 0 36 | 21 44 |
| 7 | 16 | 18 | 0 28 | 12 37 | 2 23 | 12 53 | 0 36 | 21 49 |
| 10 | 16 | 18 | 0 28 | 12 36 | 2 22 | 12 54 | 0 36 | 21 53 |
| 13 | 16 | 18 | 0 27 | 12 36 | 2 21 | 12 54 | 0 36 | 21 57 |
| 16 | 16 | 18 | 0 27 | 12 37 | 2 20 | 12 56 | 0 36 | 22 1 |
| 19 | 16 | 17 | 0 27 | 12 37 | 2 19 | 12 57 | 0 36 | 22 5 |
| 22 | 16 | 17 | 0 27 | 12 38 | 2 18 | 12 59 | 0 36 | 22 9 |
| 25 | 16 | 17 | 0 27 | 12 38 | 2 17 | 13 1 | 0 36 | 22 12 |
| 28 | 16 | 16 | 0 27 | 12 39 | 2 16 | 13 8 | 0 36 | 22 16 |
| 31 | 16 | 16 | 0 27 | 12 40 | 2 16 | 13 6 | 0 36 | 22 19 |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 18 44 12 | 11 ^w 4 21 | 23 S 0 | 22 ^m 53 | 5 N 15 | 7 N 39 | 4 35 |
| 2 | S | 18 48 8 | 12 5 31 | 22 54 | 6 ^h 44 | 5 13 | 2 7 | 4 34 |
| 3 | M | 18 52 5 | 13 6 41 | 22 49 | 20 47 | 4 53 | 3 S 35 | 4 34 |
| 4 | Tu | 18 56 1 | 14 7 51 | 22 42 | 5 ^m 2 | 4 15 | 9 12 | 4 33 |
| 5 | W | 18 59 58 | 15 9 2 | 22 36 | 19 24 | 3 21 | 14 22 | 4 33 |
| 6 | Th | 19 3 55 | 16 10 12 | 22 29 | 3 ^h 53 | 2 13 | 18 46 | 4 33 |
| 7 | F | 19 7 51 | 17 11 23 | 22 21 | 18 23 | 0 57 | 22 0 | 4 32 |
| 8 | S | 19 11 48 | 18 12 33 | 22 13 | 2 ^w 49 | 0 S 23 | 23 48 | 4 32 |
| 9 | S | 19 15 44 | 19 13 43 | 22 3 | 17 6 | 1 40 | 24 1 | 4 32 |
| 10 | M | 19 19 41 | 20 14 53 | 21 56 | 1 ^m 9 | 2 49 | 22 40 | 4 32 |
| 11 | Tu | 19 23 37 | 21 16 2 | 21 47 | 14 53 | 3 48 | 20 1 | 4 32 |
| 12 | W | 19 27 34 | 22 17 11 | 21 37 | 28 15 | 4 32 | 16 20 | 4 D 32 |
| 13 | Th | 19 31 30 | 23 18 20 | 21 27 | 11 ^x 16 | 5 0 | 11 58 | 4 32 |
| 14 | F | 19 35 27 | 24 19 27 | 21 16 | 23 56 | 5 13 | 7 12 | 4 32 |
| 15 | S | 19 39 24 | 25 20 34 | 21 5 | 6 ^r 17 | 5 11 | 2 16 | 4 32 |
| 16 | S | 19 43 20 | 26 21 41 | 20 54 | 18 24 | 4 55 | 2 N 40 | 4 32 |
| 17 | M | 19 47 17 | 27 22 46 | 20 42 | 0 ^h 20 | 4 27 | 7 26 | 4 33 |
| 18 | Tu | 19 51 13 | 28 23 50 | 20 30 | 12 10 | 3 47 | 11 54 | 4 33 |
| 19 | W | 19 55 10 | 29 24 53 | 20 17 | 24 0 | 2 58 | 15 55 | 4 33 |
| 20 | Th | 19 59 6 | 0 ^m 25 56 | 20 4 | 5 ^h 55 | 2 0 | 19 20 | 4 34 |
| 21 | F | 20 3 8 | 1 26 57 | 19 51 | 17 59 | 0 57 | 21 58 | 4 34 |
| 22 | S | 20 6 59 | 2 27 57 | 19 38 | 0 ^h 15 | 0 N 10 | 23 37 | 4 34 |
| 23 | S | 20 10 56 | 3 28 57 | 19 24 | 12 47 | 1 17 | 24 8 | 4 35 |
| 24 | M | 20 14 53 | 4 29 55 | 19 9 | 25 36 | 2 23 | 23 22 | 4 36 |
| 25 | Tu | 20 18 49 | 5 30 53 | 18 54 | 8 ^h 43 | 3 22 | 21 20 | 4 36 |
| 26 | W | 20 22 46 | 6 31 50 | 18 39 | 22 7 | 4 11 | 18 6 | 4 37 |
| 27 | Th | 20 26 42 | 7 32 45 | 18 24 | 5 ^m 45 | 4 47 | 18 51 | 4 38 |
| 28 | F | 20 30 39 | 8 33 40 | 18 8 | 19 35 | 5 6 | 8 49 | 4 39 |
| 29 | S | 20 34 35 | 9 34 35 | 17 52 | 3 ^h 34 | 5 8 | 3 17 | 4 39 |
| 30 | S | 20 38 32 | 10 35 28 | 17 36 | 17 38 | 4 51 | 2 S 26 | 4 40 |
| 31 | M | 20 42 28 | 11 36 21 | 17 19 | 1 ^m 45 | 4 17 | 3 4 | 4 41 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 S 58 | 23 S 20 | 1 N 28 | 20 N 11 | 2 N 52 | 20 S 16 | 28 II 8 |
| 4 | 0 59 | 23 2 | 1 21 | 20 59 | 2 30 | 20 42 | 27 58 |
| 7 | 1 0 | 22 43 | 1 15 | 21 31 | 2 4 | 21 15 | 27 49 |
| 10 | 1 0 | 22 19 | 1 7 | 21 58 | 1 36 | 21 48 | 27 39 |
| 13 | 1 1 | 21 54 | 1 0 | 22 20 | 1 9 | 22 19 | 27 29 |
| 16 | 1 2 | 21 26 | 0 51 | 22 35 | 0 41 | 22 43 | 27 20 |
| 19 | 1 3 | 20 57 | 0 42 | 22 45 | 0 16 | 23 0 | 27 10 |
| 22 | 1 3 | 20 25 | 0 34 | 22 48 | 0 S 7 | 23 8 | 27 1 |
| 25 | 1 4 | 19 52 | 0 26 | 22 45 | 0 35 | 23 6 | 26 51 |
| 28 | 1 4 | 19 16 | 0 17 | 22 36 | 0 52 | 22 53 | 26 42 |
| 31 | 1 4 | 18 39 | 0 9 | 22 21 | 1 11 | 22 28 | 26 32 |

| D | h | ♈ | | ♉ | | ♊ | | ♋ | | ♌ | | Mutual | Lunar | | | |
|----|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|---|--------|-------|---|--|--|
| M | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☽ | h | | | | | | |
| 1 | 11 8 | 8 | 11 7 | 58 | 17 4 | 8 7 | 53 | 20 7 | 43 | ☉ Δ h | | | | ☐ | | |
| 2 | 11 8 | 7 | 12 11 | 17 | 51 | 10 8 | 20 | 59 | ☉ ∇ ♄ | ☐ | | | | | | |
| 3 | 11 | 6 | 12 23 | 18 | 37 | 11 22 | 21 | 22 | | | | | | * | | |
| 4 | 11 | 5 | 12 36 | 19 | 24 | 12 36 | 21 | 53 | ♄ ☿ ♀ | | ♂ | ♂ | | | | |
| 5 | 11 | 4 | 12 48 | 20 | 10 | 13 50 | 22 | 29 | | * | | | | | | |
| 6 | 11 | 4 | 13 1 | 20 | 57 | 16 4 | 23 | 11 | | | | | | | | |
| 7 | 11 | 3 | 13 13 | 21 | 44 | 16 18 | 23 | 57 | | | | | ♂ | ♂ | | |
| 8 | 11 | 3 | 13 25 | 22 | 30 | 17 33 | 24 | 49 | | | Δ | | | | | |
| 9 | 11 | 3 | 13 37 | 23 | 17 | 18 47 | 25 | 43 | | ♂ | | Δ | | ♂ | | |
| 10 | 11 | 2 | 13 50 | 24 | 3 | 20 1 | 26 | 42 | h ☐ ♀ | | ☐ | | | | | |
| 11 | 11 | 2 | 14 2 | 24 | 50 | 21 16 | 27 | 43 | | | | ☐ | * | | | |
| 12 | 11 | 2 | 14 14 | 25 | 38 | 22 30 | 28 | 48 | | | ■ | | | * | | |
| 13 | 11 D | 2 | 14 26 | 26 | 26 | 23 44 | 29 | 55 | | | | * | 1 | * | | |
| 14 | 11 | 2 | 14 38 | 27 | 12 | 24 59 | 1 4 | | | * | | | * | ☐ | | |
| 15 | 11 | 3 | 14 49 | 27 | 58 | 26 13 | 2 | 15 | h ☐ ♀ | | | | | ☐ | | |
| 16 | 11 | 3 | 15 1 | 28 | 45 | 27 27 | 3 | 28 | | | | | Δ | | | |
| 17 | 11 | 4 | 15 18 | 29 | 32 | 28 42 | 4 | 48 | h Δ ♀ | ☐ | ♂ | | | ☐ | | |
| 18 | 11 | 4 | 15 24 | 0 | 19 | 29 57 | 5 | 59 | ♄ ∠ ♂ | | | ♂ | | | | |
| 19 | 11 | 5 | 15 36 | 1 | 6 | 1 11 | 7 | 17 | ♂ ∇ ♀ | | | | | | | |
| 20 | 11 | 5 | 15 47 | 1 | 53 | 2 25 | 8 | 36 | ☉ ∠ ♄ | Δ | | | | Δ | | |
| 21 | 11 | 6 | 15 59 | 2 | 40 | 3 40 | 9 | 56 | | | | | ♂ | | | |
| 22 | 11 | 7 | 16 10 | 3 | 27 | 4 54 | 11 | 18 | h Δ ♀ | | * | | | ♂ | | |
| 23 | 11 | 9 | 16 21 | 4 | 14 | 6 9 | 12 | 40 | h ☐ ♂ | | | * | | ♂ | | |
| 24 | 11 | 10 | 16 32 | 5 | 2 | 7 23 | 14 | 4 | ☉ ☐ h | | | | | | | |
| 25 | 11 | 12 | 16 43 | 6 | 49 | 8 38 | 15 | 28 | | ♂ | ☐ | ☐ | | ♂ | | |
| 26 | 11 | 13 | 16 54 | 6 | 36 | 9 52 | 16 | 54 | ☉ ☿ ♂ | | | | Δ | | | |
| 27 | 11 | 15 | 17 5 | 7 | 23 | 11 6 | 18 | 20 | h Δ ♀ | | | Δ | Δ | ■ | | |
| 28 | 11 | 16 | 17 16 | 8 | 10 | 12 21 | 19 | 47 | | | | | ☐ | Δ | | |
| 29 | 11 | 18 | 17 26 | 8 | 57 | 13 35 | 21 | 15 | | Δ | | | | | | |
| 30 | 11 | 20 | 17 37 | 9 | 45 | 14 51 | 22 | 44 | | | | | * | ☐ | | |
| 31 | 11 | 23 | 17 47 | 10 | 31 | 16 5 | 24 | 14 | ☉ ☐ h | | ♂ | | | ☐ | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia | | Herschel. | | Mars. | | Jupiter. | |
|--------|------------------|----|-----------|---------|--------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 27 | 12 N 41 | 2 8 15 | 13 N 7 | 0 N 35 | 22 8 19 |
| 4 | 16 | 15 | 0 27 | 12 42 | 2 15 | 13 10 | 0 35 | 22 22 |
| 7 | 16 | 15 | 0 27 | 12 43 | 2 14 | 13 18 | 0 35 | 22 25 |
| 10 | 16 | 14 | 0 27 | 12 45 | 2 13 | 13 17 | 0 35 | 22 27 |
| 13 | 16 | 14 | 0 27 | 12 46 | 2 13 | 13 21 | 0 35 | 22 29 |
| 16 | 16 | 13 | 0 27 | 12 48 | 2 12 | 13 25 | 0 35 | 22 31 |
| 19 | 16 | 12 | 0 26 | 12 50 | 2 11 | 13 29 | 0 35 | 22 33 |
| 22 | 16 | 12 | 0 26 | 12 52 | 2 10 | 13 33 | 0 35 | 22 35 |
| 25 | 16 | 11 | 0 26 | 12 54 | 2 9 | 13 38 | 0 35 | 22 36 |
| 28 | 16 | 10 | 0 26 | 12 56 | 2 8 | 13 43 | 0 35 | 22 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 20 46 25 | 12 37 13 | 17 S 2 | 15 m 59 | 3 N 27 | 13 S 18 | 4 43 |
| 2 | W | 20 50 21 | 13 38 4 | 16 45 | 0 f 1 | 2 25 | 17 49 | 4 44 |
| 3 | Th | 20 54 18 | 14 38 54 | 16 27 | 14 6 | 1 14 | 21 18 | 4 45 |
| 4 | F | 20 58 15 | 15 39 43 | 16 9 | 28 8 | 0 8 | 23 28 | 4 46 |
| 5 | S | 21 2 11 | 16 40 31 | 15 51 | 12 w 6 | 1 16 | 24 10 | 4 47 |

6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 18 4 | 18 S 26 | 0 N 7 | 22 S 14 | 1 S 17 | 22 S 17 | 26 □ 29 |
| 4 | 1 5 | 17 46 | 0 S 2 | 21 51 | 1 33 | 21 37 | 26 19 |
| 7 | 1 5 | 17 4 | 0 10 | 21 21 | 1 46 | 20 44 | 26 10 |
| 10 | 1 5 | 16 21 | 0 18 | 20 46 | 1 56 | 19 39 | 26 0 |
| 13 | 1 5 | 15 36 | 0 26 | 20 6 | 2 3 | 18 21 | 25 51 |
| 16 | 1 5 | 14 50 | 0 33 | 19 20 | 2 6 | 16 50 | 25 41 |
| 19 | 1 5 | 14 3 | 0 40 | 18 29 | 2 6 | 15 7 | 25 32 |
| 22 | 1 5 | 13 14 | 0 47 | 17 33 | 2 1 | 13 11 | 25 22 |
| 25 | 1 4 | 12 24 | 0 53 | 16 33 | 1 52 | 11 2 | 25 13 |
| 28 | 1 4 | 11 33 | 0 59 | 15 29 | 1 39 | 8 42 | 25 3 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 11 8 25 | 17 7 58 | 11 18 18 | 17 20 20 | 25 13 43 | ♄ □ ♈ | ☐ | | ♄ | | ☐ | * | * |
| 2 | 11 27 18 | 8 12 6 | 18 34 27 | 15 24 15 | 27 15 4 | ♄ ✕ ♈ | * | | | | | | * |
| 3 | 11 29 18 | 18 12 53 | 19 49 28 | 47 28 47 | | | * | | | ♄ | * | | |
| 4 | 11 32 18 | 28 13 40 | 21 3 0 | 20 20 20 | | | | Δ | | | | | |
| 5 | 11 34 18 | 38 14 28 | 22 18 1 | 54 18 54 | | | | | Δ | | | | |
| 6 | 11 37 18 | 48 15 15 | 23 32 3 | 28 3 28 | | | | | | | | ♄ | ♄ |
| 7 | 11 40 18 | 58 16 22 | 24 47 5 | 3 3 3 | ☉ * ♄ | | ♄ | ☐ | ☐ | | ♄ | ♄ | ♄ |
| 8 | 11 43 19 | 8 16 49 | 26 2 6 | 39 2 39 | | | | * | * | | | | |
| 9 | 11 46 19 | 17 17 37 | 27 16 8 | 16 8 16 | | | | * | * | | | | |
| 10 | 11 49 19 | 27 18 24 | 28 31 9 | 53 31 53 | | | | | | ☐ | | | |
| 11 | 11 52 19 | 36 19 12 | 29 46 11 | 32 11 32 | ♄ □ ♈ | | | | | | * | * | * |
| 12 | 11 56 19 | 46 19 59 | 1 0 13 | 11 13 11 | ♄ * ♈ | | * | | | Δ | * | * | * |
| 13 | 11 59 19 | 55 20 47 | 2 15 14 | 51 2 51 | | | * | | | | | | |
| 14 | 12 3 20 | 4 21 34 | 3 29 16 | 32 3 32 | | | | ♄ | ♄ | | ☐ | ☐ | ☐ |
| 15 | 12 6 20 | 12 23 21 | 4 44 18 | 14 18 14 | ☿ □ ♈ | | | | | | ☐ | ☐ | ☐ |
| 16 | 12 10 20 | 21 23 9 | 5 58 19 | 57 19 57 | ♄ * ♈ | | ☐ | | | | | Δ | |
| 17 | 12 14 20 | 29 23 56 | 7 13 21 | 41 21 41 | | | | | | | | | |
| 18 | 12 18 20 | 38 24 43 | 8 28 23 | 25 23 25 | | | Δ | * | * | ♄ | Δ | | Δ |
| 19 | 12 22 20 | 46 25 31 | 9 42 25 | 10 25 10 | ♄ ☉ ♈ | | | * | * | | | | |
| 20 | 12 26 20 | 55 26 18 | 10 57 26 | 57 26 57 | | | | | | | | | |
| 21 | 12 30 21 | 3 27 5 | 12 11 28 | 45 28 45 | ♄ □ ♈ | | | ☐ | | | | ♄ | ♄ |
| 22 | 12 34 21 | 11 27 53 | 13 26 0 | * 33 0 | * 33 | | ♄ | | ☐ | Δ | ♄ | ♄ | ♄ |
| 23 | 12 39 21 | 18 28 40 | 14 41 2 | 23 2 23 | ☉ * ☿ | | ♄ | Δ | | | ♄ | ♄ | ♄ |
| 24 | 12 43 21 | 26 29 27 | 15 55 4 | 13 4 13 | | | | | Δ | ☐ | | | |
| 25 | 12 47 21 | 34 0 * 14 | 17 10 6 | 4 6 4 | ☿ * ♈ | | | | | | | | |
| 26 | 12 52 21 | 41 1 1 | 18 24 7 | 56 7 56 | ☉ ☉ ♈ | | | | | | | Δ | |
| 27 | 12 57 21 | 48 1 49 | 19 39 9 | 49 9 49 | | | | | | * | Δ | | |
| 28 | 13 2 21 | 56 2 37 | 20 54 11 | 43 11 43 | | | Δ | ♄ | ♄ | | | | Δ |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 10 | 0 8 26 | 12 N 57 | 2 8 8 | 13 N 45 | 0 N 36 | 22 S 35 |
| 4 | 16 | 9 | 0 26 | 12 59 | 2 7 | 13 50 | 0 36 | 22 39 |
| 7 | 16 | 8 | 0 26 | 13 2 | 2 7 | 13 55 | 0 36 | 22 40 |
| 10 | 16 | 8 | 0 26 | 13 5 | 2 6 | 14 1 | 0 36 | 22 41 |
| 13 | 16 | 7 | 0 26 | 13 8 | 2 6 | 14 6 | 0 36 | 22 41 |
| 16 | 16 | 6 | 0 26 | 13 10 | 2 5 | 14 12 | 0 36 | 22 42 |
| 19 | 16 | 5 | 0 26 | 13 13 | 2 5 | 14 18 | 0 36 | 22 42 |
| 22 | 16 | 4 | 0 26 | 13 16 | 2 4 | 14 24 | 0 36 | 22 43 |
| 25 | 16 | 4 | 0 26 | 13 19 | 2 3 | 14 30 | 0 36 | 22 44 |
| 28 | 16 | 3 | 0 26 | 13 22 | 2 3 | 14 36 | 0 36 | 22 44 |
| 31 | 16 | 2 | 0 26 | 13 25 | 2 2 | 14 43 | 0 36 | 22 44 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. s. | ° ' " | ° ' " | ° | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 22 36 48 | 10 x 51 56 | 7 8 30 | 26 m 51 | 2 N 25 | 17 S 7 | 5 x 31 |
| 2 | W | 22 40 45 | 11 52 4 | 7 7 | 10 f 58 | 1 16 | 20 51 | 5 33 |
| 3 | Th | 22 44 41 | 12 52 10 | 6 44 | 24 54 | 0 3 | 23 19 | 5 35 |
| 4 | F | 22 48 38 | 13 52 14 | 6 21 | 8 w 39 | 1 8 | 24 20 | 5 37 |
| 5 | S | 22 52 35 | 14 52 17 | 5 58 | 22 14 | 2 17 | 23 52 | 5 39 |
| 6 | S | 22 56 31 | 15 52 18 | 5 35 | 5 m 38 | 3 15 | 22 2 | 5 41 |
| 7 | M | 23 0 28 | 16 52 17 | 5 11 | 18 53 | 4 3 | 19 1 | 5 44 |
| 8 | Tu | 23 4 24 | 17 52 15 | 4 48 | 1 x 57 | 4 36 | 15 5 | 5 47 |
| 9 | W | 23 8 21 | 18 52 11 | 4 24 | 14 48 | 4 55 | 10 32 | 5 49 |
| 10 | Th | 23 12 17 | 19 52 5 | 4 1 | 27 28 | 5 0 | 5 35 | 5 52 |
| 11 | F | 23 16 14 | 20 51 56 | 3 37 | 9 r 54 | 4 49 | 0 30 | 5 55 |
| 12 | S | 23 20 10 | 21 51 46 | 3 14 | 22 8 | 4 25 | 4 N 31 | 5 57 |
| 13 | S | 23 24 7 | 22 51 34 | 2 50 | 4 x 10 | 3 50 | 9 18 | 6 0 |
| 14 | M | 23 28 4 | 23 51 19 | 2 27 | 16 4 | 3 5 | 13 42 | 6 3 |
| 15 | Tu | 23 32 0 | 24 51 3 | 2 3 | 27 53 | 2 12 | 17 33 | 6 6 |
| 16 | W | 23 35 57 | 25 50 44 | 1 39 | 9 n 41 | 1 14 | 20 42 | 6 9 |
| 17 | Th | 23 39 53 | 26 50 22 | 1 15 | 21 33 | 0 12 | 23 0 | 6 13 |
| 18 | F | 23 43 50 | 27 49 59 | 0 52 | 3 s 35 | 0 N 52 | 24 17 | 6 15 |
| 19 | S | 23 47 46 | 28 49 33 | 0 28 | 15 52 | 1 54 | 24 25 | 6 16 |
| 20 | S | 23 51 43 | 29 49 4 | 0 4 | 28 30 | 2 53 | 23 18 | 6 21 |
| 21 | M | 23 55 39 | 0 r 48 34 | 0 N 19 | 11 s 32 | 3 44 | 20 56 | 6 24 |
| 22 | Tu | 23 59 36 | 1 48 1 | 0 43 | 25 2 | 4 25 | 17 21 | 6 27 |
| 23 | W | 0 3 33 | 2 47 26 | 1 7 | 8 m 59 | 4 52 | 13 43 | 6 30 |
| 24 | Th | 0 7 29 | 3 46 49 | 1 30 | 23 21 | 5 1 | 7 15 | 6 33 |
| 25 | F | 0 11 26 | 4 46 10 | 1 54 | 8 s 1 | 4 51 | 1 16 | 6 36 |
| 26 | S | 0 15 22 | 5 45 29 | 2 17 | 22 54 | 4 21 | 4 S 52 | 6 39 |
| 27 | S | 0 19 19 | 6 44 46 | 2 41 | 7 m 48 | 3 33 | 10 46 | 6 42 |
| 28 | M | 0 23 15 | 7 44 1 | 3 4 | 22 36 | 2 31 | 16 0 | 6 45 |
| 29 | Tu | 0 27 12 | 8 43 14 | 3 28 | 7 f 12 | 1 20 | 20 13 | 6 45 |
| 30 | W | 0 31 8 | 9 42 26 | 3 51 | 21 31 | 0 5 | 23 6 | 6 51 |
| 31 | Th | 0 35 5 | 10 41 35 | 4 14 | 5 w 31 | 1 8 | 9 24 | 6 55 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 4 | 11 8 16 | 18 1 | 15 8 6 | 18 33 | 7 8 52 | 25 II 0 |
| 4 | 1 4 | 10 24 | 1 6 | 13 57 | 1 12 | 5 18 | 24 51 |
| 7 | 1 8 | 9 80 | 1 11 | 12 44 | 0 47 | 2 36 | 24 41 |
| 10 | 1 8 | 8 87 | 1 16 | 11 28 | 0 16 | 0 N 10 | 24 31 |
| 13 | 1 2 | 7 42 | 1 19 | 10 9 | 0 N 19 | 2 56 | 24 22 |
| 16 | 1 2 | 6 47 | 1 22 | 8 48 | 0 57 | 5 34 | 24 12 |
| 19 | 1 1 | 5 51 | 1 24 | 7 24 | 1 35 | 7 56 | 24 3 |
| 22 | 1 1 | 4 55 | 1 26 | 5 59 | 2 11 | 9 57 | 23 53 |
| 25 | 1 0 | 3 59 | 1 27 | 4 32 | 2 41 | 11 31 | 23 44 |
| 28 | 0 59 | 3 3 | 1 27 | 3 5 | 3 4 | 12 33 | 23 34 |
| 31 | 0 58 | 2 6 | 1 28 | 1 36 | 3 16 | 13 0 | 23 25 |

| D
M | h | | N | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| 1 | 18 6 | 22 1 | 3 8 | 25 22 | 8 13 | 38 13 | 38 13 | 38 13 | h * ♀ | | | | | | |
| 2 | 13 11 | 22 10 | 4 12 | 23 28 | 15 33 | | | | | ■ | | | | | |
| 3 | 13 16 | 22 16 | 4 59 | 24 37 | 17 29 | ☉ * h | | | | | | | | ♂ | |
| 4 | 13 21 | 22 23 | 5 46 | 25 52 | 19 25 | h * ♂ | | | | * | Δ | Δ | | | ♂ |
| 5 | 13 27 | 22 29 | 6 33 | 27 6 | 21 22 | | | | | | | | | | |
| 6 | 13 32 | 22 36 | 7 21 | 28 21 | 23 19 | N □ ♀ | | | | | □ | | | | |
| 7 | 13 37 | 22 41 | 8 8 | 29 36 | 25 16 | | | | | | | □ | * | | |
| 8 | 13 43 | 22 47 | 8 55 | 0 50 | 27 12 | | | | | | * | | | | |
| 9 | 13 48 | 22 53 | 9 42 | 2 42 | 29 8 | | | | | ♂ | | * | | | C |
| 10 | 13 54 | 22 59 | 10 29 | 3 18 | 1 3 | | | | | | | | | □ | |
| 11 | 13 59 | 23 4 | 11 17 | 4 33 | 2 56 | | | | | | | | | | |
| 12 | 14 5 | 23 10 | 12 4 | 5 48 | 4 48 | h * ♀ | | | | | | | | Δ | |
| 13 | 14 11 | 23 15 | 12 52 | 7 3 | 6 38 | ☉ □ N | | | | | ♂ | | | * | * |
| 14 | 14 16 | 23 20 | 13 39 | 8 17 | 8 26 | | | | | | | ♂ | | * | |
| 15 | 14 22 | 23 26 | 14 26 | 9 32 | 10 10 | h * ♂ | | | | * | | | | | |
| 16 | 14 28 | 23 29 | 15 13 | 10 46 | 11 51 | | | | | | | | | | * |
| 17 | 14 34 | 23 34 | 16 0 | 12 0 | 13 28 | | | | | □ | | | ♂ | □ | * |
| 18 | 14 40 | 23 38 | 16 47 | 13 15 | 15 1 | | | | | | * | | | | |
| 19 | 14 47 | 23 42 | 17 34 | 14 30 | 16 28 | h * ♀ | | | | Δ | | * | | Δ | □ |
| 20 | 14 53 | 23 46 | 18 21 | 15 44 | 17 51 | | | | | | | | | | |
| 21 | 14 59 | 23 50 | 19 8 | 16 58 | 19 8 | | | | | | □ | □ | | | |
| 22 | 15 5 | 23 53 | 19 55 | 18 12 | 20 18 | | | | | | | | Δ | | Δ |
| 23 | 15 12 | 23 57 | 20 42 | 19 27 | 21 23 | | | | | | Δ | Δ | | | |
| 24 | 15 18 | 24 0 | 21 29 | 20 41 | 22 20 | | | | | | | | □ | ♂ | ♂ |
| 25 | 15 25 | 24 3 | 22 16 | 21 56 | 23 11 | | | | | ♂ | | | | | |
| 26 | 15 31 | 24 6 | 23 3 | 23 10 | 23 55 | ♂ ♂ ♀ | | | | | | | * | | ♂ |
| 27 | 15 38 | 24 9 | 23 50 | 24 25 | 24 31 | N □ ♀ | | | | | ♂ | | | | |
| 28 | 15 44 | 24 12 | 23 37 | 25 39 | 25 1 | | | | | | | ♂ | | Δ | Δ |
| 29 | 15 51 | 24 14 | 23 23 | 26 53 | 25 23 | | | | | Δ | | | | | |
| 30 | 15 58 | 24 16 | 23 10 | 28 7 | 25 87 | | | | | | | | ♂ | □ | Δ |
| 31 | 16 5 | 24 18 | 23 57 | 29 22 | 25 44 | | | | | □ | Δ | | | □ | |

APRIL XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|-------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| 1 | 16 | 2 | 0 3 25 | 18 N 27 | 2 3 2 | 14 N 45 | 0 N 36 | 22 54 |
| 4 | 16 | 1 | 0 25 | 18 30 | 2 2 | 14 51 | 0 36 | 22 5 |
| 7 | 16 | 0 | 0 25 | 18 33 | 2 1 | 14 58 | 0 36 | 22 1 |
| 10 | 16 | 59 | 0 25 | 18 36 | 2 1 | 15 4 | 0 36 | 22 1 |
| 13 | 16 | 58 | 0 25 | 18 40 | 2 1 | 15 10 | 0 36 | 22 0 |
| 16 | 16 | 58 | 0 25 | 18 43 | 2 0 | 15 17 | 0 36 | 22 1 |
| 19 | 16 | 57 | 0 25 | 18 46 | 2 0 | 15 23 | 0 36 | 22 1 |
| 22 | 16 | 56 | 0 25 | 18 50 | 2 0 | 15 30 | 0 36 | 22 1 |
| 25 | 16 | 55 | 0 25 | 18 53 | 1 59 | 15 36 | 0 36 | 22 1 |
| 28 | 16 | 55 | 0 25 | 18 56 | 1 58 | 15 40 | 0 36 | 22 1 |

| D
M | D
W | Sidereal
Time. | | |
|--------|--------|-------------------|----|----|
| | | H. | M. | S. |
| 1 | F | 0 | 39 | 21 |
| 2 | S | 0 | 42 | 58 |
| 3 | S | 0 | 46 | 55 |
| 4 | M | 0 | 50 | 51 |
| 5 | Tu | 0 | 54 | 48 |
| 6 | W | 0 | 58 | 44 |
| 7 | Th | 1 | 2 | 41 |
| 8 | F | 1 | 6 | 37 |
| 9 | S | 1 | 10 | 34 |
| 10 | S | 1 | 14 | 30 |
| 11 | M | 1 | 18 | 27 |
| 12 | Tu | 1 | 22 | 24 |
| 13 | W | 1 | 26 | 20 |
| 14 | Th | 1 | 30 | 17 |
| 15 | F | 1 | 34 | 13 |
| 16 | S | 1 | 38 | 10 |
| 17 | S | 1 | 42 | 6 |
| 18 | M | 1 | 46 | 3 |
| 19 | Tu | 1 | 50 | 0 |
| 20 | W | 1 | 53 | 56 |
| 21 | Th | 1 | 57 | 53 |
| 22 | F | 2 | 1 | 49 |
| 23 | S | 2 | 5 | 46 |
| 24 | S | 2 | 9 | 42 |
| 25 | M | 2 | 13 | 39 |
| 26 | Tu | 2 | 17 | 35 |
| 27 | W | 2 | 21 | 32 |
| 28 | Th | 2 | 25 | 28 |
| 29 | F | 2 | 29 | 25 |
| 30 | S | 2 | 33 | 22 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 08 58 | 18 47 | 18 22 | 18 6 | 8 N 17 | 13 N 1 | 28 II 22 |
| 4 | 0 57 | 0 50 | 1 27 | 0 N 23 | 8 11 | 12 41 | 28 12 |
| 7 | 0 56 | 0 N 6 | 1 25 | 1 52 | 2 51 | 11 49 | 28 3 |
| 10 | 0 55 | 1 8 | 1 24 | 3 21 | 2 19 | 10 33 | 22 58 |
| 13 | 0 54 | 1 59 | 1 22 | 4 50 | 1 85 | 9 2 | 22 48 |
| 16 | 0 53 | 2 55 | 1 19 | 6 17 | 0 46 | 7 30 | 22 34 |
| 19 | 0 51 | 3 50 | 1 15 | 7 44 | 0 S 4 | 6 8 | 22 24 |
| 22 | 0 50 | 4 45 | 1 11 | 9 9 | 0 51 | 5 8 | 22 15 |
| 25 | 0 49 | 5 39 | 1 7 | 10 32 | 1 32 | 4 21 | 22 5 |
| 28 | 0 47 | 6 33 | 1 3 | 11 52 | 2 7 | 4 8 | 21 56 |

| D.
M | ♂ | | ♀ | | ☿ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|---------|-------|-------|-------|-------|---------|-------|--------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 16 11 | 24 20 | 27 44 | 0 36 | 25 45 | | | | | Δ | | | □ |
| 2 | 16 18 | 24 22 | 28 50 | 1 51 | 25 37 | | | | □ | | * | * | |
| 3 | 16 25 | 24 23 | 29 17 | 3 5 | 25 24 | | | * | | □ | | | |
| 4 | 16 32 | 24 24 | 0 4 | 4 19 | 25 4 | | | | | | * | | * |
| 5 | 16 39 | 24 25 | 0 50 | 5 38 | 24 40 | ♂ Δ ♀ | | * | * | | | | |
| 6 | 16 46 | 24 26 | 1 37 | 6 48 | 24 9 | | | | | | | | |
| 7 | 16 53 | 24 27 | 2 24 | 8 2 | 23 34 | | | | | | | ♂ | |
| 8 | 17 0 | 24 28 | 3 10 | 9 16 | 22 56 | | | ♂ | | | | | ♂ |
| 9 | 17 7 | 24 28 | 3 57 | 10 81 | 22 16 | | | | | | | | |
| 10 | 17 15 | 24 28 | 4 43 | 11 45 | 21 32 | | | ♂ | | | | | |
| 11 | 17 22 | 24 28 | 5 29 | 12 59 | 20 47 | ☉ ♂ ♀ | | | | | | | |
| 12 | 17 29 | 24 28 | 6 14 | 13 20 | 2 | | | | | | | | |
| 13 | 17 37 | 24 28 | 7 2 | 15 27 | 19 18 | | | | | | * | * | |
| 14 | 17 44 | 24 27 | 7 48 | 16 41 | 18 35 | ☉ Δ ♀ | | | | | | | |
| 15 | 17 51 | 24 26 | 8 35 | 17 56 | 17 54 | ♀ ♂ ♀ | | | | | | | □ |
| 16 | 17 59 | 24 25 | 9 21 | 19 10 | 17 16 | | | □ | | | | | □ |
| 17 | 18 6 | 24 24 | 10 7 | 20 24 | 16 40 | | | | □ | | | Δ | |
| 18 | 18 14 | 24 22 | 10 50 | 21 38 | 16 9 | | | | | □ | Δ | Δ | ♂ |
| 19 | 18 21 | 24 21 | 11 39 | 22 52 | 15 42 | | | Δ | Δ | | | | |
| 20 | 18 28 | 24 19 | 12 25 | 24 6 | 15 19 | | | | | Δ | | | |
| 21 | 18 36 | 24 17 | 13 11 | 25 20 | 15 1 | ♀ Δ ♀ | | | | | | | |
| 22 | 18 44 | 24 15 | 13 57 | 26 34 | 14 48 | | | | | | | | ♂ |
| 23 | 18 51 | 24 13 | 14 42 | 27 48 | 14 40 | ♂ ♂ ♀ | | ♂ | ♂ | | | ♂ | |
| 24 | 18 59 | 24 10 | 15 29 | 29 2 | 14 D 36 | | | | | | | | |
| 25 | 19 6 | 24 8 | 16 15 | 0 16 | 14 38 | | | | | | | | |
| 26 | 19 14 | 24 5 | 17 1 | 1 30 | 14 45 | | | | | | | Δ | Δ |
| 27 | 19 22 | 24 2 | 17 50 | 2 44 | 14 56 | | | Δ | | | ♂ | Δ | Δ |
| 28 | 19 29 | 23 59 | 18 32 | 3 58 | 15 13 | | | | Δ | Δ | | □ | □ |
| 29 | 19 37 | 23 55 | 19 18 | 5 12 | 15 33 | ☉ ♂ ♀ | | | | | | □ | |
| 30 | 19 44 | 23 52 | 20 4 | 6 27 | 15 59 | | | □ | □ | | | | * |

ASTRON

LY XX

| D
M | Sun's | | Herschel. | | | |
|--------|----------|----|-----------|----|---------|-----|
| | Semidia. | | Lat. | | Declin. | |
| | ' | " | ° | ' | ° | ' |
| 1 | 15 | 54 | 0 | 25 | 14 | N 0 |
| 4 | 15 | 53 | 0 | 25 | 14 | 8 |
| 7 | 15 | 53 | 0 | 25 | 14 | 6 |
| 10 | 15 | 52 | 0 | 25 | 14 | 10 |
| 13 | 15 | 51 | 0 | 25 | 14 | 13 |
| 16 | 15 | 51 | 0 | 25 | 14 | 16 |
| 19 | 15 | 50 | 0 | 25 | 14 | 19 |
| 22 | 15 | 50 | 0 | 25 | 14 | 22 |
| 25 | 15 | 49 | 0 | 25 | 14 | 26 |
| 28 | 15 | 48 | 0 | 25 | 14 | 29 |
| 31 | 15 | 48 | 0 | 25 | 14 | 31 |

| D
M | D
W | Time. | Long. | D |
|--------|--------|----------|----------|----|
| | | H. M. S. | ° ' " | ° |
| 1 | S | 2 37 18 | 10 59 20 | 16 |
| 2 | M | 2 41 15 | 11 57 29 | 16 |
| 3 | Tu | 2 45 11 | 12 55 37 | 16 |
| 4 | W | 2 49 8 | 13 53 43 | 16 |
| 5 | Th | 2 53 4 | 14 51 47 | 16 |
| 6 | F | 2 57 1 | 15 49 50 | 16 |
| 7 | S | 3 0 57 | 16 47 51 | 16 |
| 8 | S | 3 4 54 | 17 45 51 | 17 |
| 9 | M | 3 8 51 | 18 43 50 | 17 |
| 10 | Tu | 3 12 47 | 19 41 46 | 17 |
| 11 | W | 3 16 44 | 20 39 41 | 17 |
| 12 | Th | 3 20 40 | 21 37 35 | 18 |
| 13 | F | 3 24 37 | 22 35 26 | 18 |
| 14 | S | 3 28 33 | 23 33 16 | 18 |
| 15 | S | 3 32 30 | 24 31 4 | 18 |
| 16 | M | 3 36 26 | 25 28 51 | 19 |
| 17 | Tu | 3 40 23 | 26 26 35 | 19 |
| 18 | W | 3 44 20 | 27 24 18 | 19 |
| 19 | Th | 3 48 16 | 28 22 0 | 19 |
| 20 | F | 3 52 13 | 29 19 40 | 20 |
| 21 | S | 3 56 9 | 0 17 18 | 20 |
| 22 | S | 4 0 6 | 1 14 56 | 20 |
| 23 | M | 4 4 2 | 2 12 32 | 20 |
| 24 | Tu | 4 7 59 | 3 10 7 | 20 |
| 25 | W | 4 11 55 | 4 7 40 | 20 |
| 26 | Th | 4 15 52 | 5 5 13 | 21 |
| 27 | F | 4 19 49 | 6 2 45 | 21 |
| 28 | S | 4 23 45 | 7 0 16 | 21 |
| 29 | S | 4 27 42 | 7 57 46 | 21 |
| 30 | M | 4 31 38 | 8 55 15 | 21 |
| 31 | Tu | 4 35 35 | 9 53 44 | 21 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 08 45 | 7 N 28 | 08 57 | 18 N 11 | 28 34 | 4 N 7 | 21 11 46 |
| 4 | 0 44 | 8 19 | 0 52 | 14 28 | 3 54 | 4 31 | 21 37 |
| 7 | 0 43 | 9 10 | 0 48 | 15 39 | 3 6 | 5 14 | 21 27 |
| 10 | 0 42 | 10 0 | 0 40 | 16 47 | 3 12 | 6 13 | 21 18 |
| 13 | 0 40 | 10 50 | 0 33 | 17 52 | 3 11 | 7 27 | 21 8 |
| 16 | 0 37 | 11 38 | 0 27 | 18 53 | 3 5 | 8 52 | 20 59 |
| 19 | 0 35 | 12 26 | 0 20 | 19 49 | 2 58 | 10 27 | 20 49 |
| 22 | 0 34 | 13 12 | 0 13 | 20 40 | 2 36 | 12 10 | 20 40 |
| 25 | 0 32 | 13 57 | 0 6 | 21 27 | 2 18 | 13 59 | 20 30 |
| 28 | 0 30 | 14 40 | 0 N 2 | 22 7 | 1 46 | 15 52 | 20 20 |
| 31 | 0 28 | 15 22 | 0 9 | 22 43 | 1 19 | 17 45 | 20 11 |

| D
M | h | | ♄ | | ♅ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|--------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♅ | ♆ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 19 52 | 23 48 | 20 49 | 7 41 | 16 28 | | | | | ☐ | * | ☐ | |
| 2 | 20 02 | 23 14 | 21 35 | 8 54 | 17 1 | ☿ ☽ ♀ | * | * | | | | | * |
| 3 | 20 8 | 23 40 | 22 10 | 8 17 | 39 | | | | * | ☐ | | | |
| 4 | 20 15 | 23 36 | 23 6 | 11 22 | 18 20 | | | | | | | | |
| 5 | 20 23 | 23 32 | 23 51 | 12 36 | 19 5 | ♄ Δ ♄ | | | | | | | ♂ |
| 6 | 20 31 | 23 27 | 24 37 | 13 50 | 19 53 | | | | | | | | |
| 7 | 20 39 | 23 23 | 25 22 | 15 42 | 20 45 | | | ♂ | | | | | |
| 8 | 20 46 | 23 18 | 26 7 | 16 18 | 21 40 | | | | | | | | |
| 9 | 20 54 | 23 13 | 26 52 | 17 32 | 22 38 | | | | | | | | |
| 10 | 21 2 | 23 8 | 27 38 | 18 46 | 23 39 | ♄ Δ ♀ | | | | | | | |
| 11 | 21 10 | 23 2 | 28 23 | 20 0 | 24 44 | | | | | | ♂ | * | * |
| 12 | 21 17 | 22 57 | 29 8 | 21 14 | 25 51 | ♈ ☽ ♀ | * | * | | | | | * |
| 13 | 21 25 | 22 51 | 29 53 | 22 28 | 27 1 | ☉ ☽ ♀ | * | | * | | | * | ☐ |
| 14 | 21 33 | 22 46 | 0 38 | 23 42 | 28 13 | | | | | ☐ | | | ☐ |
| 15 | 21 40 | 22 40 | 1 23 | 24 55 | 29 28 | | | ☐ | ☐ | | | | |
| 16 | 21 48 | 22 34 | 2 7 | 26 9 | 0 46 | | | ☐ | | | | | Δ |
| 17 | 21 56 | 22 28 | 2 52 | 27 33 | 2 6 | | | | Δ | | | | |
| 18 | 22 4 | 22 22 | 3 37 | 28 37 | 3 28 | ♄ ☽ ♀ | Δ | | | | | | |
| 19 | 22 11 | 22 16 | 4 22 | 29 51 | 4 53 | | | | | | | | |
| 20 | 22 19 | 22 9 | 5 6 | 1 5 | 6 21 | | | | | | | | |
| 21 | 22 27 | 22 2 | 5 51 | 2 18 | 7 51 | | | | | | | | ♂ |
| 22 | 22 35 | 21 56 | 6 35 | 3 32 | 9 23 | ☿ ☽ ♀ | ♂ | | | | | | |
| 23 | 22 42 | 21 49 | 7 20 | 4 46 | 10 57 | | | | | | | | |
| 24 | 22 50 | 21 42 | 8 5 | 6 0 | 12 34 | | | | | | | | |
| 25 | 22 58 | 21 35 | 8 49 | 7 13 | 14 13 | | | | | | | | Δ |
| 26 | 23 5 | 21 28 | 9 33 | 8 27 | 15 55 | | | | | | | | |
| 27 | 23 13 | 21 21 | 10 17 | 9 41 | 17 39 | ☿ ☽ ♀ | Δ | | | | | | |
| 28 | 23 21 | 21 14 | 11 2 | 10 55 | 19 25 | | | | | | | | ☐ |
| 29 | 23 28 | 21 7 | 11 46 | 12 8 | 21 13 | | | ☐ | | | | | |
| 30 | 23 36 | 21 0 | 12 30 | 13 22 | 23 5 | ♈ ☽ ♀ | | | | | | | * |
| 31 | 23 43 | 20 52 | 13 14 | 14 36 | 24 58 | | | | | | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 25 | 14 N 32 | 1 S 58 | 16 N 51 | 0 N 33 | 22 S 35 |
| 4 | 15 | 48 | 0 25 | 14 35 | 1 58 | 16 56 | 0 33 | 22 34 |
| 7 | 15 | 47 | 0 25 | 14 38 | 1 58 | 17 2 | 0 32 | 22 32 |
| 10 | 15 | 47 | 0 25 | 14 41 | 1 58 | 17 7 | 0 32 | 22 31 |
| 13 | 15 | 47 | 0 25 | 14 43 | 1 58 | 17 12 | 0 32 | 22 30 |
| 16 | 15 | 46 | 0 25 | 14 46 | 1 58 | 17 17 | 0 31 | 22 28 |
| 19 | 15 | 46 | 0 25 | 14 48 | 1 58 | 17 22 | 0 31 | 22 27 |
| 22 | 15 | 46 | 0 25 | 14 51 | 1 59 | 17 26 | 0 31 | 22 25 |
| 25 | 15 | 46 | 0 25 | 14 53 | 1 59 | 17 31 | 0 30 | 22 24 |
| 28 | 15 | 46 | 0 25 | 14 55 | 1 59 | 17 35 | 0 30 | 22 22 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|-------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 4 39 31 | 10 II 50 12 | 22 N 5 | 12 r 38 | 4 S 52 | 0 N 31 | 10 S 21 |
| 2 | Th | 4 43 28 | 11 47 39 | 22 13 | 24 40 | 4 20 | 5 32 | 10 25 |
| 3 | F | 4 47 24 | 12 45 5 | 22 21 | 6 S 34 | 3 37 | 10 18 | 10 28 |
| 4 | S | 4 51 21 | 13 42 31 | 22 28 | 18 23 | 2 44 | 14 41 | 10 31 |
| 5 | S | 4 55 18 | 14 39 56 | 22 35 | 0 II 10 | 1 45 | 18 29 | 10 34 |
| 6 | M | 4 59 14 | 15 37 20 | 22 41 | 11 59 | 0 42 | 21 33 | 10 37 |
| 7 | Tu | 5 3 11 | 16 34 44 | 22 47 | 23 50 | 0 N 24 | 23 43 | 10 40 |
| 8 | W | 5 7 7 | 17 32 6 | 22 52 | 5 S 46 | 1 29 | 24 49 | 10 43 |
| 9 | Th | 5 11 4 | 18 29 28 | 22 58 | 17 50 | 2 31 | 24 46 | 10 46 |
| 10 | F | 5 15 0 | 19 26 49 | 23 2 | 0 Ω 4 | 3 27 | 23 31 | 10 48 |
| 11 | S | 5 18 57 | 20 24 9 | 23 7 | 12 30 | 4 14 | 21 7 | 10 51 |
| 12 | S | 5 22 54 | 21 21 28 | 23 11 | 25 11 | 4 49 | 17 41 | 10 54 |
| 13 | M | 5 26 50 | 22 18 46 | 23 14 | 8 m 9 | 5 11 | 13 20 | 10 57 |
| 14 | Tu | 5 30 47 | 23 16 3 | 23 17 | 21 28 | 5 17 | 8 15 | 11 0 |
| 15 | W | 5 34 43 | 24 18 19 | 23 20 | 5 S 8 | 5 6 | 2 38 | 11 2 |
| 16 | Th | 5 38 40 | 25 10 35 | 23 22 | 19 12 | 4 36 | 3 S 15 | 11 5 |
| 17 | F | 5 42 36 | 26 7 50 | 23 24 | 3 m 37 | 3 49 | 9 9 | 11 8 |
| 18 | S | 5 46 33 | 27 5 4 | 23 26 | 18 20 | 2 45 | 14 39 | 11 10 |
| 19 | S | 5 50 29 | 28 2 17 | 23 27 | 3 f 17 | 1 29 | 19 22 | 11 13 |
| 20 | M | 5 54 26 | 28 59 30 | 23 27 | 18 20 | 0 7 | 22 50 | 11 16 |
| 21 | Tu | 5 58 23 | 29 56 43 | 23 28 | 3 w 21 | 1 S 16 | 24 41 | 11 18 |
| 22 | W | 6 2 19 | 0 S 53 55 | 23 27 | 18 11 | 2 32 | 24 44 | 11 21 |
| 23 | Th | 6 6 16 | 1 51 7 | 23 27 | 2 m 43 | 3 37 | 23 5 | 11 24 |
| 24 | F | 6 10 12 | 2 48 18 | 23 26 | 16 51 | 4 27 | 20 2 | 11 26 |
| 25 | S | 6 14 9 | 3 45 30 | 23 24 | 0 x 34 | 5 0 | 15 57 | 11 28 |
| 26 | S | 6 18 5 | 4 42 41 | 23 22 | 13 50 | 5 15 | 11 12 | 11 30 |
| 27 | M | 6 22 2 | 5 39 53 | 23 20 | 26 42 | 5 14 | 6 7 | 11 33 |
| 28 | Tu | 6 25 58 | 6 37 5 | 23 18 | 9 r 11 | 4 58 | 0 55 | 11 35 |
| 29 | W | 6 29 55 | 7 34 17 | 23 15 | 21 24 | 4 29 | 4 N 13 | 11 38 |
| 30 | Th | 6 33 52 | 8 31 29 | 23 11 | 3 S 23 | 3 48 | 9 5 | 11 40 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 8 28 | 15 N 36 | 0 N 11 | 22 N 53 | 1 8 9 | 18 N 22 | 20 II 8 |
| 4 | 0 26 | 16 17 | 0 18 | 23 21 | 0 37 | 20 9 | 19 58 |
| 7 | 0 24 | 16 55 | 0 26 | 23 42 | 0 4 | 21 46 | 19 49 |
| 10 | 0 22 | 17 33 | 0 33 | 23 57 | 0 N 27 | 23 9 | 19 39 |
| 13 | 0 20 | 18 8 | 0 39 | 24 6 | 0 58 | 24 10 | 19 30 |
| 16 | 0 18 | 18 42 | 0 45 | 24 9 | 1 21 | 24 48 | 19 20 |
| 19 | 0 16 | 19 15 | 0 51 | 24 5 | 1 39 | 25 0 | 19 11 |
| 22 | 0 14 | 19 46 | 0 57 | 23 54 | 1 50 | 24 48 | 19 1 |
| 25 | 0 12 | 20 14 | 1 8 | 23 37 | 1 55 | 24 14 | 18 51 |
| 28 | 0 10 | 20 42 | 1 8 | 23 14 | 1 54 | 23 23 | 18 42 |

| D
M | ♂ | ♂ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|----------|---------|----------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♂ | ♂ | ♀ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 23 5 51 | 20 7 45 | 13 5 58 | 15 II 49 | 26 5 58 | | * | | | | * | |
| 2 | 23 58 | 20 13 37 | 14 42 | 17 3 | 28 51 | | | | Δ | | | |
| 3 | 24 6 | 20 30 | 15 26 | 18 17 | 0 II 50 | | ♂ | | | | | |
| 4 | 24 13 | 20 23 | 16 10 | 19 31 | 2 52 | | | ♂ | | ♂ | | |
| 5 | 24 21 | 20 15 | 16 54 | 20 45 | 4 55 | ♂ ♀ ♀ | | | | | | ♂ |

♂

*

*

□

☉

Δ Δ

♂

♀

Δ Δ

☉ □

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 46 | 0 S 25 | 14 N 57 | 1 S 59 | 17 N 39 | 0 N 29 | 22 S 21 |
| 4 | 15 | 46 | 0 25 | 14 59 | 1 59 | 17 43 | 0 29 | 22 19 |
| 7 | 15 | 46 | 0 25 | 15 1 | 2 0 | 17 47 | 0 28 | 22 18 |
| 10 | 15 | 46 | 0 25 | 15 3 | 2 0 | 17 51 | 0 28 | 22 17 |
| 13 | 15 | 46 | 0 25 | 15 4 | 2 0 | 17 54 | 0 27 | 22 16 |
| 16 | 15 | 46 | 0 25 | 15 6 | 2 1 | 17 58 | 0 27 | 22 15 |
| 19 | 15 | 47 | 0 26 | 15 7 | 2 1 | 18 1 | 0 26 | 22 14 |
| 22 | 15 | 47 | 0 26 | 15 8 | 2 1 | 18 4 | 0 26 | 22 13 |
| 25 | 15 | 47 | 0 26 | 15 9 | 2 2 | 18 7 | 0 25 | 22 13 |
| 28 | 15 | 47 | 0 26 | 15 10 | 2 2 | 18 9 | 0 24 | 22 12 |
| 31 | 15 | 48 | 0 26 | 15 11 | 2 2 | 18 12 | 0 24 | 22 12 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 6 37 48 | 9♄ 28 41 | 23 N 7 | 15 ♄ 14 | 2 S 58 | 13 N 35 | 11 ♄ 42 |
| 2 | S | 6 41 45 | 10 25 54 | 23 3 27 | 2 2 | 2 1 17 | 33 | 11 44 |
| 3 | S | 6 45 41 | 11 23 7 | 22 58 8 | ♄ 50 | 0 59 | 20 49 | 11 46 |
| 4 | M | 6 49 38 | 12 20 20 | 22 53 20 | 21 | 0 N 6 | 23 14 | 11 48 |
| 5 | Tu | 6 53 34 | 13 17 33 | 22 48 2 | ♄ 39 | 1 12 | 24 38 | 11 50 |
| 6 | W | 6 57 31 | 14 14 46 | 22 42 14 | 46 | 2 14 | 24 52 | 11 52 |
| 7 | Th | 7 1 27 | 15 12 0 | 22 36 27 | 3 | 3 12 | 23 54 | 11 54 |
| 8 | F | 7 5 24 | 16 9 13 | 22 29 9 | ♄ 32 | 4 1 | 21 45 | 11 56 |
| 9 | S | 7 9 21 | 17 6 27 | 22 22 22 | 14 | 4 39 | 18 30 | 11 58 |
| 10 | S | 7 13 17 | 18 3 40 | 22 14 5 | ♄ 10 | 5 4 | 14 20 | 12 0 |
| 11 | M | 7 17 14 | 19 0 54 | 22 7 18 | 20 | 5 13 | 9 25 | 12 2 |
| 12 | Tu | 7 21 10 | 19 58 8 | 21 58 1 | ♄ 44 | 5 6 | 3 59 | 12 4 |
| 13 | W | 7 25 7 | 20 55 21 | 21 50 15 | 25 | 4 41 | 1 S 45 | 12 6 |
| 14 | Th | 7 29 3 | 21 52 35 | 21 41 29 | 20 | 3 59 | 7 31 | 12 8 |
| 15 | F | 7 33 0 | 22 49 49 | 21 31 13 | ♄ 31 | 3 3 | 13 0 | 12 9 |
| 16 | S | 7 36 56 | 23 47 3 | 21 22 27 | 56 | 1 53 | 17 52 | 12 10 |
| 17 | S | 7 40 53 | 24 44 17 | 21 12 12 | ♄ 31 | 0 36 | 21 43 | 12 12 |
| 18 | M | 7 44 50 | 25 41 31 | 21 1 27 | 13 | 0 S 44 | 24 10 | 12 13 |
| 19 | Tu | 7 48 46 | 26 38 46 | 20 51 11 | ♄ 55 | 2 1 | 24 56 | 12 15 |
| 20 | W | 7 52 43 | 27 36 2 | 20 39 26 | 32 | 3 9 | 23 58 | 12 16 |
| 21 | Th | 7 56 39 | 28 33 17 | 20 28 10 | ♄ 55 | 4 5 | 21 25 | 12 17 |
| 22 | F | 8 0 36 | 29 30 34 | 20 16 25 | 0 | 4 44 | 17 39 | 12 19 |
| 23 | S | 8 4 32 | 0 ♄ 27 51 | 20 4 8 | ♄ 43 | 5 5 | 13 1 | 12 20 |
| 24 | S | 8 8 29 | 1 25 9 | 19 52 22 | 1 | 5 9 | 7 54 | 12 21 |
| 25 | M | 8 12 25 | 2 22 28 | 19 39 4 | ♄ 54 | 4 57 | 2 36 | 12 23 |
| 26 | Tu | 8 16 22 | 3 19 48 | 19 26 17 | 26 | 4 32 | 2 N 40 | 12 24 |
| 27 | W | 8 20 19 | 4 17 9 | 19 12 29 | 40 | 3 54 | 7 43 | 12 25 |
| 28 | Th | 8 24 15 | 5 14 31 | 18 58 11 | ♄ 39 | 3 6 | 12 23 | 12 26 |
| 29 | F | 8 28 12 | 6 11 54 | 18 44 23 | 31 | 2 11 | 16 33 | 12 27 |
| 30 | S | 8 32 8 | 7 9 18 | 18 30 5 | ♄ 19 | 1 11 | 20 2 | 12 28 |
| 31 | S | 8 36 5 | 8 6 44 | 18 15 17 | 8 | 0 8 | 22 42 | 12 29 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 S 7 | 21 N 7 | 1 N 14 | 22 N 45 | 1 N 46 | 22 N 14 | 18 Π 32 |
| 4 | 0 5 | 21 31 | 1 17 | 22 10 | 1 34 | 20 56 | 18 23 |
| 7 | 0 3 | 21 52 | 1 20 | 21 29 | 1 16 | 19 29 | 18 13 |
| 10 | 0 1 | 22 12 | 1 23 | 20 42 | 0 54 | 17 56 | 18 4 |
| 13 | 0 N 1 | 22 30 | 1 26 | 19 51 | 0 27 | 16 20 | 17 54 |
| 16 | 0 4 | 22 46 | 1 29 | 18 54 | 0 S 3 | 14 43 | 17 45 |
| 19 | 0 6 | 23 1 | 1 31 | 17 53 | 0 36 | 13 8 | 17 35 |
| 22 | 0 8 | 23 13 | 1 32 | 16 47 | 1 11 | 11 37 | 17 26 |
| 25 | 0 10 | 23 24 | 1 32 | 15 37 | 1 47 | 10 12 | 17 16 |
| 28 | 0 13 | 23 32 | 1 31 | 14 23 | 2 25 | 8 57 | 17 7 |
| 31 | 0 15 | 23 39 | 1 30 | 13 7 | 3 3 | 7 55 | 16 57 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 27 23 | 17 4 | 5 Π 30 | 22 39 | 28 22 | | | ♄ | | | | |
| 2 | 27 29 | 16 R 57 | 6 13 | 23 53 | 0 Ω 5 | | | | ♄ | | * | * |
| 3 | 27 36 | 16 51 | 6 55 | 25 6 | 1 45 | | | | | | ♄ | |
| 4 | 27 42 | 16 44 | 7 37 | 26 20 | 3 24 | | | | | ♄ | | |
| 5 | 27 48 | 16 38 | 8 19 | 27 34 | 5 0 | ♄ * ♀ | | | | | | |
| 6 | 27 54 | 16 32 | 9 1 | 28 47 | 6 34 | | ♄ | * | | | | |
| 7 | 28 0 | 16 26 | 9 42 | 0 Ω 0 | 8 6 | | | | * | | | ♄ |
| 8 | 28 6 | 16 20 | 10 24 | 1 14 | 9 35 | | | ☐ | | | * | ♄ |
| 9 | 28 12 | 16 15 | 11 6 | 2 27 | 11 3 | ♄ * ♀ | | | ☐ | Δ | | |
| 10 | 28 18 | 16 9 | 11 47 | 3 41 | 12 29 | ☿ ☐ ♀ | | | | | | |
| 11 | 28 24 | 16 4 | 12 29 | 4 55 | 13 52 | | * | Δ | | ☐ | ☐ | |
| 12 | 28 30 | 15 59 | 13 10 | 6 8 | 15 13 | | | | Δ | | * | * |
| 13 | 28 36 | 15 54 | 13 52 | 7 22 | 16 32 | ♄ Δ ♀ | ☐ | | | * | Δ | * |
| 14 | 28 42 | 15 49 | 14 33 | 8 35 | 17 48 | | | | | | | |
| 15 | 28 47 | 15 44 | 15 15 | 9 49 | 19 2 | | | ♄ | | | | ☐ |
| 16 | 28 53 | 15 39 | 15 56 | 11 2 | 20 14 | ♄ ♄ ♄ | Δ | | ♄ | | | |
| 17 | 28 58 | 15 35 | 16 37 | 12 16 | 21 22 | ☿ ☐ ♀ | | | | ♄ | ♄ | Δ |
| 18 | 29 4 | 15 30 | 17 18 | 13 29 | 22 29 | | | | | | | Δ |
| 19 | 29 9 | 15 26 | 17 59 | 14 43 | 23 32 | | | Δ | | | | |
| 20 | 29 14 | 15 22 | 18 40 | 15 56 | 24 33 | ♄ Δ ♀ | ♄ | | Δ | | | |
| 21 | 29 19 | 15 18 | 19 21 | 17 10 | 25 31 | | | ☐ | | * | | ♄ |
| 22 | 29 25 | 15 14 | 20 2 | 18 23 | 26 26 | ☉ * ♄ | | | ☐ | | Δ | ♄ |
| 23 | 29 30 | 15 11 | 20 43 | 19 37 | 27 18 | | | * | | ☐ | | |
| 24 | 29 35 | 15 7 | 21 24 | 20 50 | 28 6 | | | | | | ☐ | |
| 25 | 29 40 | 15 4 | 22 4 | 22 8 | 28 51 | ♄ * ♀ | Δ | | * | | | |
| 26 | 29 44 | 15 1 | 22 45 | 23 17 | 29 33 | ♄ ☐ ♀ | | | | | Δ | * |
| 27 | 29 49 | 14 58 | 23 25 | 24 30 | 0 10 | | | ☐ | | | | Δ |
| 28 | 29 54 | 14 56 | 24 6 | 25 43 | 0 44 | | | | ♄ | | | |
| 29 | 29 58 | 14 53 | 24 47 | 26 57 | 1 14 | | | | | | | ☐ |
| 30 | 0 Π 3 | 14 51 | 25 27 | 28 10 | 1 39 | | * | | ♄ | | | ☐ |
| 31 | 0 7 | 14 49 | 26 7 | 29 24 | 2 0 | | | | | ♄ | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 15 | 48 | 0 26 | 15 N 11 | 2 3 | 18 N 12 | 0 N 23 | 22 11 |
| 4 | 15 | 48 | 0 26 | 15 12 | 2 3 | 18 15 | 0 23 | 22 11 |
| 7 | 15 | 49 | 0 26 | 15 13 | 2 4 | 18 17 | 0 22 | 22 12 |
| 10 | 15 | 49 | 0 26 | 15 13 | 2 4 | 18 18 | 0 22 | 22 12 |
| 13 | 15 | 50 | 0 26 | 15 13 | 2 5 | 18 20 | 0 21 | 22 13 |
| 16 | 15 | 50 | 0 26 | 15 13 | 2 5 | 18 21 | 0 21 | 22 14 |
| 19 | 15 | 51 | 0 26 | 15 13 | 2 6 | 18 23 | 0 20 | 22 15 |
| 22 | 15 | 51 | 0 26 | 15 13 | 2 6 | 18 24 | 0 20 | 22 16 |
| 25 | 15 | 52 | 0 26 | 15 13 | 2 7 | 18 24 | 0 19 | 22 17 |
| 28 | 15 | 53 | 0 26 | 15 12 | 2 7 | 18 25 | 0 19 | 22 18 |
| 31 | 15 | 53 | 0 26 | 15 12 | 2 8 | 18 25 | 0 18 | 22 21 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 8 40 1 | 9 2 4 10 | 18 N 0 | 29 11 4 | 0 N 56 | 24 N 24 | 12 2 25 |
| 2 | Tu | 8 43 58 | 10 1 38 | 17 45 | 11 55 9 | 1 59 | 24 58 | 12 2 25 |
| 3 | W | 8 47 55 | 10 59 7 | 17 29 | 23 27 | 2 56 | 24 19 | 12 3 37 |
| 4 | Th | 8 51 51 | 11 56 37 | 17 13 | 6 2 0 | 3 47 | 22 27 | 12 3 37 |
| 5 | F | 8 55 48 | 12 54 7 | 16 57 | 18 49 | 4 26 | 19 25 | 12 3 37 |
| 6 | S | 8 59 44 | 13 51 39 | 16 41 | 1 52 | 4 53 | 15 23 | 12 3 37 |
| 7 | S | 9 3 41 | 14 49 12 | 16 24 | 15 9 | 5 51 | 10 32 | 12 3 37 |
| 8 | M | 9 7 37 | 15 46 46 | 16 7 | 28 39 | 6 0 | 5 7 | 12 3 37 |
| 9 | Tu | 9 11 34 | 16 44 21 | 16 50 | 12 20 | 4 38 | 0 3 37 | 12 3 37 |
| 10 | W | 9 15 30 | 17 41 57 | 16 32 | 26 9 | 3 59 | 6 23 | 12 3 37 |
| 11 | T | | | | 7 | 3 6 | 11 55 | 12 3 37 |
| 12 | | | | | 11 | 2 1 | 16 52 | 12 3 37 |
| 13 | | | | | 12 | 0 49 | 20 55 | 12 3 37 |
| 14 | | | | | 17 | 0 3 27 | 23 42 | 12 3 37 |
| 15 | | | | | 15 | 1 41 | 24 58 | 12 3 37 |
| 16 | T | | | | 13 | 2 49 | 24 34 | 12 3 37 |
| 17 | W | 9 43 6 | 14 25 33 | 18 23 | 5 26 | 3 46 | 22 35 | 12 3 37 |
| 18 | Th | 9 47 3 | 25 23 17 | 18 4 | 19 30 | 4 28 | 19 13 | 12 3 37 |
| 19 | F | 9 50 59 | 26 21 8 | 12 45 | 3 20 | 4 54 | 14 51 | 12 3 37 |
| 20 | S | 9 54 56 | 27 18 49 | 12 25 | 16 52 | 5 2 | 9 50 | 12 3 37 |
| 21 | S | 9 58 52 | 28 16 37 | 12 5 | 0 3 | 4 54 | 4 29 | 12 3 37 |
| 22 | M | 10 2 49 | 29 14 27 | 11 40 | 12 54 | 4 31 | 0 N 56 | 12 3 37 |
| 23 | Tu | 10 6 46 | 0 12 19 | 11 25 | 25 24 | 3 56 | 6 10 | 12 3 37 |
| 24 | W | 10 10 42 | 1 10 12 | 11 4 | 7 37 | 3 10 | 11 4 | 12 3 37 |
| 25 | Th | 10 14 39 | 2 8 7 | 10 43 | 19 36 | 3 17 | 15 27 | 12 3 37 |
| 26 | F | 10 18 35 | 3 6 4 | 10 23 | 1 28 | 1 18 | 19 12 | 12 3 37 |
| 27 | S | 10 22 32 | 4 4 3 | 10 2 | 13 16 | 0 16 | 22 9 | 12 3 37 |
| 28 | S | 10 26 28 | 5 2 3 | 10 25 | 7 | 0 N 47 | 24 9 | 12 3 37 |
| 29 | M | 10 30 25 | 6 0 6 | 9 19 | 7 5 | 1 48 | 25 4 | 12 3 37 |
| 30 | Tu | 10 34 21 | 6 58 10 | 8 58 | 19 16 | 2 45 | 24 48 | 12 3 37 |
| 31 | W | 10 38 18 | 7 56 17 | 8 36 | 1 43 | 3 36 | 23 18 | 12 3 37 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 0 N16 | 23 N41 | 1 N30 | 12 N40 | 3 S 15 | 7 N38 | 16 ♄54 |
| 4 | 0 18 | 23 45 | 1 28 | 11 19 | 3 50 | 6 59 | 16 44 |
| 7 | 0 20 | 23 48 | 1 26 | 9 56 | 4 19 | 6 41 | 16 35 |
| 10 | 0 23 | 23 49 | 1 23 | 8 30 | 4 39 | 6 49 | 16 25 |
| 13 | 0 25 | 23 48 | 1 19 | 7 2 | 4 47 | 7 22 | 16 16 |
| 16 | 0 28 | 23 45 | 1 15 | 5 32 | 4 40 | 8 19 | 16 6 |
| 19 | 0 30 | 23 41 | 1 10 | 4 1 | 4 15 | 9 33 | 15 57 |
| 22 | 0 33 | 23 35 | 1 5 | 2 29 | 3 35 | 10 54 | 15 47 |
| 25 | 0 35 | 23 27 | 0 59 | 0 56 | 2 45 | 12 9 | 15 38 |
| 28 | 0 38 | 23 18 | 0 52 | 0 S 37 | 1 50 | 13 8 | 15 28 |
| 31 | 0 40 | 23 7 | 0 45 | 2 10 | 0 55 | 13 44 | 15 19 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|-----|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | |
| 1 | 0 ♄12 | 14 ♄47 | 26 ♄47 | 0 ♄37 | 2 ♄17 | ♄ ☐ ♀ | | | | | ♂ * | * |
| 2 | 0 16 | 14 ♄45 | 27 27 | 1 50 | 2 27 | | | * | | | ♂ * | * |
| 3 | 0 20 | 14 43 | 28 7 | 3 4 | 2 35 | ♀ ♂ ♀ | | | | | | |
| 4 | 0 24 | 14 42 | 28 47 | 4 17 | 2 36 | | | | * | | | |
| 5 | 0 28 | 14 41 | 29 27 | 5 30 | 2 ♄32 | ☉ ☐ ☿ | ♂ ☐ | | * | Δ | | |
| 6 | 0 32 | 14 40 | 0 ♄ 7 | 6 43 | 2 23 | | | | ☐ | | * | ♂ ♂ |
| 7 | 0 36 | 14 39 | 0 47 | 7 57 | 2 8 | ☉ Δ ♄ | | Δ | | ☐ | * | ♂ ♂ |
| 8 | 0 40 | 14 38 | 1 27 | 9 10 | 1 48 | ♂ * ♀ | | | Δ | | ☐ | |
| 9 | 0 44 | 14 38 | 2 6 | 10 23 | 1 22 | | * | | | * | | |
| 10 | 0 47 | 14 37 | 2 46 | 11 36 | 0 53 | ♄ ☐ ♀ | | | | | Δ | * |
| 11 | 0 51 | 14 37 | 3 25 | 12 49 | 0 18 | ☿ Δ ♀ | | ♂ | | | | * |
| 12 | 0 54 | 14 D38 | 4 5 | 14 2 | 29 ♄38 | ♄ ☐ ♀ | ☐ | | ♂ | | | ☐ |
| 13 | 0 57 | 14 38 | 4 44 | 15 16 | 28 55 | | | | | ♂ | | |
| 14 | 1 0 | 14 38 | 5 23 | 16 29 | 28 8 | | Δ | | | | ☐ | Δ |
| 15 | 1 3 | 14 39 | 6 3 | 17 42 | 27 19 | | | Δ | | | ♂ | |
| 16 | 1 6 | 14 40 | 6 42 | 18 56 | 26 27 | | | | | | | Δ |
| 17 | 1 9 | 14 41 | 7 21 | 20 9 | 25 36 | | | | Δ | | | |
| 18 | 1 12 | 14 42 | 8 0 | 21 22 | 24 44 | ☉ ♂ ♀ | ♂ ☐ | | * | | | ♂ |
| 19 | 1 15 | 14 43 | 8 38 | 22 35 | 23 53 | | | | ☐ | | Δ | |
| 20 | 1 17 | 14 45 | 9 17 | 23 48 | 23 5 | | | * | | ☐ | | |
| 21 | 1 20 | 14 47 | 9 56 | 25 1 | 22 20 | | | | * | | | ♂ |
| 22 | 1 22 | 14 49 | 10 53 | 26 14 | 21 40 | | | | | Δ | ☐ | |
| 23 | 1 25 | 14 51 | 11 13 | 27 27 | 21 5 | | Δ | | | | | Δ |
| 24 | 1 27 | 14 53 | 11 52 | 28 40 | 20 35 | ☉ ☐ ♄ | | ♂ | | | * | |
| 25 | 1 29 | 14 55 | 12 31 | 29 53 | 20 13 | ☿ * ♂ | | | | | | ☐ |
| 26 | 1 31 | 14 58 | 13 9 | 1 ♄ 6 | 19 58 | ♄ Δ ♀ | ☐ | | ♂ | | | Δ |
| 27 | 1 33 | 15 1 | 13 47 | 2 19 | 19 50 | | | | | ♂ | | |
| 28 | 1 35 | 15 4 | 14 26 | 3 32 | 19 D51 | | | | | | | * |
| 29 | 1 37 | 15 7 | 15 4 | 4 44 | 20 0 | | * | * | | | ☐ | |
| 30 | 1 38 | 15 11 | 15 42 | 5 57 | 20 18 | | | | | | ♂ | |
| 31 | 1 40 | 15 14 | 16 20 | 7 10 | 20 43 | | | | * | | | * |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|-------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 54 | 08 26 | 15 N12 | 28 8 | 18 N25 | 0 N18 | 22 S |
| 4 | 15 | 54 | 0 26 | 15 11 | 2 9 | 18 26 | 0 17 | 22 3 |
| 7 | 15 | 55 | 0 26 | 15 10 | 2 9 | 18 26 | 0 17 | 22 3 |
| 10 | 15 | 56 | 0 26 | 15 9 | 2 10 | 18 25 | 0 16 | 22 3 |
| 13 | 15 | 57 | 0 26 | 15 8 | 2 10 | 18 25 | 0 16 | 22 3 |
| 16 | 15 | 57 | 0 26 | 15 7 | 2 11 | 18 24 | 0 16 | 22 3 |
| 19 | 15 | 58 | 0 26 | 15 5 | 2 11 | 18 24 | 0 15 | 22 3 |
| 22 | 15 | 59 | 0 26 | 15 4 | 2 12 | 18 23 | 0 15 | 22 3 |
| 25 | 16 | 0 | 0 26 | 15 2 | 2 12 | 18 22 | 0 14 | 22 3 |
| 28 | 16 | 1 | 0 26 | 15 1 | 2 13 | 18 20 | 0 14 | 22 3 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin | | ♂
Long. | | ♂
Lat. | | ♂
Declin | | ♂
Long | |
|--------|--------|-------------------|----|----|------------|--------|-------------|----------|------------|--------|-----------|---|-------------|---|-----------|---|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | Th | 10 | 42 | 15 | 8 | m54 25 | 8 N14 | 14 22 29 | 4 N17 | 20 N36 | 12 8 3 | | | | | |
| 2 | F | 10 | 46 | 11 | 9 | 52 35 | 7 52 | 27 35 | 4 46 | 16 47 | 12 R 3 | | | | | |
| 3 | S | 10 | 50 | 8 | 10 | 50 46 | 7 30 | 11 m 0 | 5 0 | 12 3 | 12 3 | | | | | |
| 4 | S | 10 | 54 | 4 | 11 | 49 0 | 7 8 | 24 43 | 4 57 | 6 38 | 12 3 | | | | | |
| 5 | M | 10 | 58 | 1 | 12 | 47 15 | 6 46 | 8 38 | 4 36 | 0 48 | 12 3 | | | | | |
| 6 | Tu | 11 | 1 | 57 | 13 | 45 32 | 6 24 | 22 42 | 3 59 | 5 S 9 | 12 3 | | | | | |
| 7 | W | 11 | 5 | 54 | 14 | 43 50 | 6 1 | 6 m 51 | 3 6 | 10 53 | 12 3 | | | | | |
| 8 | Th | 11 | 9 | 50 | 15 | 42 10 | 5 39 | 21 2 | 2 2 | 16 4 | 12 3 | | | | | |
| 9 | F | 11 | 13 | 47 | 16 | 40 32 | 5 16 | 5 f 11 | 0 51 | 20 21 | 12 3 | | | | | |
| 10 | S | 11 | 17 | 44 | 17 | 38 55 | 4 53 | 19 19 | 0 S 24 | 23 25 | 12 3 | | | | | |
| 11 | S | 11 | 21 | 40 | 18 | 37 20 | 4 30 | 3 w 22 | 1 37 | 25 1 | 12 3 | | | | | |
| 12 | M | 11 | 25 | 37 | 19 | 35 46 | 4 7 | 17 22 | 2 43 | 25 1 | 12 3 | | | | | |
| 13 | Tu | 11 | 29 | 33 | 20 | 34 14 | 3 44 | 1 m 17 | 3 39 | 23 27 | 12 3 | | | | | |
| 14 | W | 11 | 33 | 30 | 21 | 32 43 | 3 21 | 15 4 | 4 22 | 20 30 | 12 3 | | | | | |
| 15 | Th | 11 | 37 | 26 | 22 | 31 14 | 2 58 | 28 43 | 4 50 | 16 27 | 12 3 | | | | | |
| 16 | F | 11 | 41 | 23 | 23 | 29 47 | 2 35 | 12 x 10 | 5 0 | 11 37 | 12 3 | | | | | |
| 17 | S | 11 | 45 | 19 | 24 | 28 22 | 2 12 | 25 23 | 4 55 | 6 21 | 12 3 | | | | | |
| 18 | S | 11 | 49 | 16 | 25 | 26 59 | 1 49 | 8 r 20 | 4 34 | 0 53 | 12 3 | | | | | |
| 19 | M | 11 | 53 | 13 | 26 | 25 37 | 1 25 | 21 0 | 4 0 | 4 N30 | 12 3 | | | | | |
| 20 | Tu | 11 | 57 | 9 | 27 | 24 18 | 1 2 | 3 8 24 | 3 15 | 9 36 | 12 3 | | | | | |
| 21 | W | 12 | 1 | 6 | 28 | 23 1 | 0 39 | 15 33 | 2 22 | 14 15 | 12 3 | | | | | |
| 22 | Th | 12 | 5 | 2 | 29 | 21 46 | 0 15 | 27 30 | 1 23 | 18 16 | 12 3 | | | | | |
| 23 | F | 12 | 8 | 59 | 0 | 20 33 | 0 S 8 | 9 20 | 0 21 | 21 31 | 12 3 | | | | | |
| 24 | S | 12 | 12 | 55 | 1 | 19 23 | 0 32 | 21 8 | 0 N42 | 23 51 | 12 3 | | | | | |
| 25 | S | 12 | 16 | 52 | 2 | 18 15 | 0 55 | 2 58 | 1 43 | 25 8 | 12 3 | | | | | |
| 26 | M | 12 | 20 | 48 | 3 | 17 9 | 1 18 | 14 56 | 2 40 | 25 16 | 12 3 | | | | | |
| 27 | Tu | 12 | 24 | 45 | 4 | 16 6 | 1 42 | 27 8 | 3 31 | 24 12 | 11 3 | | | | | |
| 28 | W | 12 | 28 | 42 | 5 | 15 4 | 2 5 | 9 39 | 4 14 | 21 55 | 11 3 | | | | | |
| 29 | Th | 12 | 32 | 38 | 6 | 14 6 | 2 29 | 22 31 | 4 45 | 18 30 | 11 3 | | | | | |
| 30 | F | 12 | 36 | 35 | 7 | 13 9 | 2 52 | 5 m 47 | 5 1 | 14 4 | 11 3 | | | | | |

SEPTEMBER XXX DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|---------|--------|---------|----------|---------|-----------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 0 N 41 | 23 N 3 | 0 N 43 | 2 S 41 | 0 S 38 | 13 N 49 | 15 II 15 |
| 0 43 | 22 51 | 0 34 | 4 14 | 0 N 9 | 13 45 | 15 6 |
| 0 46 | 22 37 | 0 26 | 5 46 | 0 49 | 13 10 | 14 56 |
| 0 48 | 22 22 | 0 17 | 7 17 | 1 19 | 12 5 | 14 47 |
| 0 51 | 22 5 | 0 9 | 8 47 | 1 38 | 10 33 | 14 37 |
| 0 54 | 21 48 | 0 0 | 10 15 | 1 48 | 8 41 | 14 28 |
| 0 56 | 21 29 | 0 S 9 | 11 41 | 1 50 | 6 35 | 14 18 |
| 0 59 | 21 9 | 0 19 | 13 5 | 1 46 | 4 20 | 14 9 |
| 1 2 | 20 48 | 0 29 | 14 27 | 1 37 | 2 1 | 13 59 |
| 1 5 | 20 26 | 0 39 | 15 45 | 1 25 | 0 S 20 | 13 50 |

| | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|----|---------|---------|---------|--------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 1 II 41 | 15 ♄ 18 | 16 ♄ 58 | 8 ♄ 23 | 21 ♄ 18 | | | ☐ | | Δ | | | |
| 2 | 1 42 | 15 22 | 17 36 | 9 36 | 22 0 | | | | ☐ | | | | ♈ |
| 3 | 1 44 | 15 26 | 18 14 | 10 49 | 22 50 | | ♈ | Δ | | ☐ | | | |
| 4 | 1 45 | 15 30 | 18 51 | 12 1 | 23 48 | | | | Δ | | * | | |
| 5 | 1 46 | 15 34 | 19 29 | 13 14 | 24 52 | ☿ Δ ☉ | | | | * | | ♈ | |
| 6 | 1 46 | 15 39 | 20 6 | 14 27 | 26 3 | | | | | | ☐ | | * |
| 7 | 1 47 | 15 44 | 20 44 | 15 40 | 27 22 | ♄ * ♀ | | ♄ | | | | ☐ | |
| 8 | 1 48 | 15 49 | 21 21 | 16 52 | 28 45 | ☉ ☐ ♄ | * | | | | Δ | | |
| 9 | 1 48 | 15 54 | 21 59 | 18 5 | 0 m 13 | | | | ♄ | | | | ☐ |
| 10 | 1 49 | 15 59 | 22 36 | 19 17 | 1 46 | ♄ ☐ ♀ | ☐ | | | ♈ | | * | |
| 11 | 1 49 | 16 4 | 23 13 | 20 30 | 3 22 | | | | | | | | Δ |
| 12 | 1 49 | 16 10 | 23 50 | 21 43 | 5 2 | | Δ | Δ | | | | ♄ | ☐ |
| 13 | 1 49 | 16 16 | 24 27 | 22 55 | 6 45 | | | | Δ | | | | |
| 14 | 1 49 | 16 22 | 25 3 | 24 8 | 8 30 | | | ☐ | | * | | | |
| 15 | 1 49 | 16 28 | 25 40 | 25 20 | 10 17 | | | | ☐ | | | Δ | |
| 16 | 1 49 | 16 34 | 26 17 | 26 33 | 12 6 | ☿ Δ ♀ | | * | | ☐ | | | ♄ |
| 17 | 1 48 | 16 40 | 26 53 | 27 45 | 13 56 | | ♄ | | * | | Δ | | |
| 18 | 1 48 | 16 47 | 27 30 | 28 57 | 15 46 | | | | | | | | |
| 19 | 1 47 | 16 53 | 28 6 | 0 m 10 | 17 37 | ♄ ☐ ♀ | | | | Δ | | | |
| 20 | 1 47 | 17 0 | 28 43 | 1 22 | 19 28 | ☉ ☐ ☿ | | | | | ☐ | ♄ | |
| 21 | 1 46 | 17 7 | 29 19 | 2 35 | 21 19 | | | ♈ | | | | | |
| 22 | 1 45 | 17 14 | 29 55 | 3 47 | 23 10 | | Δ | | ♈ | | * | | Δ |
| 23 | 1 44 | 17 21 | 0 ♄ 31 | 4 59 | 25 1 | ☉ * ♄ | | | | | ♄ | | |
| 24 | 1 43 | 17 29 | 1 7 | 6 11 | 26 51 | ☉ Δ ♄ | | | | | | | |
| 25 | 1 42 | 17 36 | 1 42 | 7 23 | 28 41 | ♄ * ♄ | ☐ | | | | | Δ | ☐ |
| 26 | 1 40 | 17 44 | 2 18 | 8 35 | 0 ♄ 30 | | | * | | | | | |
| 27 | 1 39 | 17 51 | 2 54 | 9 48 | 2 19 | ♄ Δ ♀ | | | * | | | ♈ | |
| 28 | 1 37 | 17 59 | 3 30 | 11 0 | 4 6 | | * | ☐ | | | | ☐ | * |
| 29 | 1 36 | 18 7 | 4 5 | 12 12 | 5 53 | ☉ ♈ ♀ | | | | Δ | | | |
| 30 | 1 34 | 18 15 | 4 40 | 13 24 | 7 39 | | | Δ | ☐ | | | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 08 26 | 14 N59 | 28 13 | 18 N19 | 0 N13 | 22 S4 |
| 4 | 16 | 2 | 0 26 | 14 57 | 2 14 | 18 17 | 0 13 | 22 4 |
| 7 | 16 | 3 | 0 26 | 14 55 | 2 14 | 18 15 | 0 12 | 22 4 |
| 10 | 16 | 4 | 0 26 | 14 53 | 2 14 | 18 13 | 0 12 | 22 5 |
| 13 | 16 | 5 | 0 26 | 14 51 | 2 15 | 18 11 | 0 11 | 22 5 |
| 16 | 16 | 6 | 0 26 | 14 49 | 2 15 | 18 9 | 0 11 | 22 5 |
| 19 | 16 | 6 | 0 26 | 14 47 | 2 15 | 18 7 | 0 11 | 22 5 |
| 22 | 16 | 7 | 0 26 | 14 44 | 2 15 | 18 4 | 0 10 | 23 1 |
| 25 | 16 | 8 | 0 26 | 14 42 | 2 16 | 18 1 | 0 10 | 23 4 |
| 28 | 16 | 9 | 0 26 | 14 40 | 2 16 | 17 59 | 0 10 | 23 6 |
| 31 | 16 | 10 | 0 26 | 14 38 | 2 16 | 17 56 | 0 9 | 23 5 |
| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 12 40 31 | 8 12 14 | 3 S 15 | 19 28 | 5 N 2 | 8 N 48 | 11 5 |
| 2 | S | 12 44 28 | 9 11 22 | 3 39 | 3 30 | 4 44 | 2 57 | 11 45 |
| 3 | M | 12 48 24 | 10 10 32 | 4 2 | 17 49 | 4 8 | 3 S 10 | 11 4 |
| 4 | Tu | 12 52 21 | 11 9 43 | 4 25 | 2 20 | 3 16 | 9 13 | 11 4 |
| 5 | W | 12 56 17 | 12 8 57 | 4 48 | 16 54 | 2 11 | 14 49 | 11 4 |
| 6 | Th | 13 0 14 | 13 8 13 | 5 11 | 1 27 | 0 57 | 19 32 | 11 40 |
| 7 | F | 13 4 11 | 14 7 30 | 5 35 | 15 54 | 0 S 20 | 23 3 | 11 30 |
| 8 | S | 13 8 7 | 15 6 49 | 5 57 | 0 10 | 1 35 | 25 3 | 11 36 |
| 9 | S | 13 12 4 | 16 6 10 | 6 20 | 14 15 | 2 43 | 25 24 | 11 34 |
| 10 | M | 13 16 0 | 17 5 33 | 6 43 | 28 7 | 3 41 | 24 10 | 11 32 |
| 11 | Tu | 13 19 57 | 18 4 57 | 7 6 | 11 48 | 4 25 | 21 30 | 11 30 |
| 12 | W | 13 23 53 | 19 4 24 | 7 28 | 25 15 | 4 54 | 17 43 | 11 27 |
| 13 | Th | 13 27 50 | 20 3 52 | 7 51 | 8 31 | 5 6 | 13 6 | 11 25 |
| 14 | F | 13 31 46 | 21 3 21 | 8 13 | 21 34 | 5 2 | 7 58 | 11 23 |
| 15 | S | 13 35 43 | 22 2 53 | 8 36 | 4 25 | 4 43 | 2 34 | 11 21 |
| 16 | S | 13 39 39 | 23 2 27 | 8 58 | 17 3 | 4 10 | 2 N 51 | 11 18 |
| 17 | M | 13 43 36 | 24 2 2 | 9 20 | 29 28 | 3 26 | 8 5 | 11 1 |
| 18 | Tu | 13 47 33 | 25 1 40 | 9 42 | 11 41 | 2 33 | 12 56 | 11 1 |
| 19 | W | 13 51 29 | 26 1 20 | 10 4 | 23 43 | 1 33 | 17 13 | 11 1 |
| 20 | Th | 13 55 26 | 27 1 2 | 10 25 | 5 37 | 0 30 | 20 46 | 11 1 |
| 21 | F | 13 59 22 | 28 0 46 | 10 47 | 17 25 | 0 N 34 | 23 26 | 11 1 |
| 22 | S | 14 3 19 | 29 0 32 | 11 8 | 29 12 | 1 37 | 25 4 | 11 1 |
| 23 | S | 14 7 15 | 0 0 20 | 11 29 | 11 1 | 2 35 | 25 35 | 11 1 |
| 24 | M | 14 11 12 | 1 0 11 | 11 50 | 22 58 | 3 28 | 24 55 | 10 5 |
| 25 | Tu | 14 15 8 | 2 0 4 | 12 11 | 5 8 | 4 12 | 23 5 | 10 5 |
| 26 | W | 14 19 5 | 2 59 59 | 12 31 | 17 36 | 4 46 | 20 6 | 10 5 |
| 27 | Th | 14 23 2 | 3 59 56 | 12 52 | 0 26 | 5 6 | 16 6 | 10 5 |
| 28 | F | 14 26 58 | 4 59 56 | 13 12 | 13 42 | 5 12 | 11 12 | 10 5 |
| 29 | S | 14 30 55 | 5 59 58 | 13 32 | 27 25 | 4 59 | 5 36 | 10 5 |
| 30 | S | 14 34 51 | 7 0 1 | 13 52 | 11 35 | 4 29 | 0 S 12 | 10 5 |
| 31 | M | 14 38 48 | 8 0 7 | 14 11 | 26 8 | 3 40 | 6 41 | 10 5 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 7 | 20 N 4 | 0 S 49 | 17 S 1 | 1 N 9 | 2 S 40 | 13 40 |
| 4 | 1 10 | 19 40 | 0 59 | 18 12 | 0 51 | 4 58 | 13 31 |
| 7 | 1 13 | 19 16 | 1 9 | 19 20 | 0 32 | 7 12 | 13 21 |
| 10 | 1 16 | 18 51 | 1 18 | 20 23 | 0 12 | 9 21 | 13 12 |
| 13 | 1 19 | 18 26 | 1 28 | 21 23 | 0 S 9 | 11 25 | 13 2 |
| 16 | 1 22 | 18 0 | 1 37 | 22 16 | 0 29 | 13 23 | 12 52 |
| 19 | 1 26 | 17 34 | 1 46 | 23 4 | 0 49 | 15 14 | 12 43 |
| 22 | 1 29 | 17 7 | 1 55 | 23 48 | 1 9 | 16 58 | 12 33 |
| 25 | 1 32 | 16 40 | 2 3 | 24 25 | 1 28 | 18 35 | 12 24 |
| 28 | 1 35 | 16 13 | 2 10 | 24 57 | 1 46 | 20 3 | 12 14 |
| 31 | 1 38 | 15 46 | 2 17 | 25 22 | 2 2 | 21 22 | 12 5 |

| D
M | ☿ | | ♂ | | ♀ | | Mutual
Aspects. | Lunar Aspects. | | | |
|--------|-------|-------|-------|-------|-------|-------|--------------------|----------------|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 1 32 | 18 24 | 5 15 | 14 36 | 9 24 | | | | | | |
| 2 | 1 30 | 18 32 | 5 51 | 15 47 | 11 9 | | | ♂ | | | |
| 3 | 1 28 | 18 41 | 6 26 | 16 59 | 12 52 | | | | | ♂ | |
| 4 | 1 26 | 18 49 | 7 0 | 18 11 | 14 35 | | | | | | |
| 5 | 1 24 | 18 58 | 7 35 | 19 23 | 16 18 | ♂ ♀ | | | | | |
| 6 | 1 21 | 19 7 | 8 10 | 20 35 | 17 58 | | | | | ♂ | Δ |
| 7 | 1 19 | 19 16 | 8 44 | 21 47 | 19 39 | ♂ ♀ | * | * | | ♂ | * |
| 8 | 1 16 | 19 25 | 9 19 | 22 58 | 21 18 | | | | | | |
| 9 | 1 14 | 19 35 | 9 53 | 24 10 | 22 58 | | | □ | Δ | | |
| 10 | 1 11 | 19 44 | 10 27 | 25 22 | 24 35 | | | | Δ | | * |
| 11 | 1 8 | 19 54 | 11 1 | 26 33 | 26 13 | | | | □ | | ♂ |
| 12 | 1 5 | 20 3 | 11 35 | 27 45 | 27 50 | ☿ ☿ | Δ | | □ | * | ♂ |
| 13 | 1 2 | 20 13 | 12 9 | 28 56 | 29 25 | ☉ * | | * | | | ♂ |
| 14 | 0 59 | 20 23 | 12 43 | 0 8 | 1 1 | | | | * | □ | |
| 15 | 0 56 | 20 33 | 13 16 | 1 19 | 2 36 | ☿ ♀ | | | * | | Δ |
| 16 | 0 53 | 20 43 | 13 50 | 2 31 | 4 10 | | | | | Δ | Δ |
| 17 | 0 49 | 20 53 | 14 23 | 3 42 | 5 48 | | | ♂ | | | |
| 18 | 0 46 | 21 3 | 14 56 | 4 53 | 7 16 | | | | ♂ | | ♂ |
| 19 | 0 42 | 21 14 | 15 29 | 6 4 | 8 48 | | | | | | |
| 20 | 0 39 | 21 24 | 16 2 | 7 15 | 10 20 | | | | | ♂ | ♂ |
| 21 | 0 35 | 21 35 | 16 35 | 8 26 | 11 51 | ☿ ♀ | | | | ♂ | * |
| 22 | 0 32 | 21 45 | 17 8 | 9 37 | 13 22 | | | Δ | * | | |
| 23 | 0 28 | 21 56 | 17 40 | 10 48 | 14 52 | | | | * | | Δ |
| 24 | 0 24 | 22 7 | 18 12 | 11 59 | 16 21 | | | | | | |
| 25 | 0 20 | 22 18 | 18 45 | 13 10 | 17 50 | | | □ | □ | * | |
| 26 | 0 16 | 22 29 | 19 17 | 14 20 | 19 18 | ♂ ☿ | | | | Δ | ♂ |
| 27 | 0 12 | 22 40 | 19 49 | 15 31 | 20 46 | | | * | | □ | Δ |
| 28 | 0 8 | 22 51 | 20 20 | 16 42 | 22 13 | | | | Δ | | □ |
| 29 | 0 3 | 23 3 | 20 52 | 17 52 | 23 39 | ♂ ♀ | | | | Δ | * |
| 30 | 29 59 | 23 14 | 21 23 | 19 3 | 25 5 | | | | | | |
| 31 | 29 55 | 23 25 | 21 55 | 20 13 | 26 30 | | | | | * | * |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 26 | 14 N 15 | 2 S 15 | 17 N 25 | 0 N 6 | 23 S 1 |
| 4 | 16 | 16 | 0 26 | 14 13 | 2 14 | 17 22 | 0 6 | 23 21 |
| 7 | 16 | 17 | 0 26 | 14 12 | 2 14 | 17 19 | 0 5 | 23 21 |
| 10 | 16 | 17 | 0 26 | 14 10 | 2 13 | 17 17 | 0 5 | 23 21 |
| 13 | 16 | 17 | 0 26 | 14 8 | 2 13 | 17 14 | 0 5 | 23 21 |
| 16 | 16 | 18 | 0 26 | 14 7 | 2 12 | 17 12 | 0 4 | 23 21 |
| 19 | 16 | 18 | 0 25 | 14 6 | 2 12 | 17 10 | 0 4 | 23 20 |
| 22 | 16 | 18 | 0 25 | 14 4 | 2 11 | 17 8 | 0 4 | 23 19 |
| 25 | 16 | 18 | 0 25 | 14 3 | 2 11 | 17 6 | 0 4 | 23 17 |
| 28 | 16 | 18 | 0 25 | 14 2 | 2 10 | 17 5 | 0 3 | 23 16 |
| 31 | 16 | 18 | 0 25 | 14 2 | 2 9 | 17 3 | 0 3 | 23 14 |

| D
M | D
W | Sidereal
Time.

H. M. S. | ☉ | ☉ | ♄ | ♄ | ♄ | ♃ | | | | | |
|--------|--------|-----------------------------------|----------|----------|-------|--------|---------|-------|---|---|---|---|---|
| | | | Long. | Declin. | Long. | Lat. | Declin. | Long. | | | | | |
| | | | ° | ' | " | ° | ' | ° | ' | " | ° | ' | " |
| 1 | Th | 16 41 1 | 9 16 11 | 21 S 52 | 19 12 | 0 S 48 | 23 S 49 | 9 23 | | | | | |
| 2 | F | 16 44 58 | 10 17 5 | 22 1 4 | 22 2 | 9 25 | 32 | 9 27 | | | | | |
| 3 | S | 16 48 54 | 11 18 1 | 22 9 19 | 19 3 | 20 25 | 22 | 9 25 | | | | | |
| 4 | S | 16 52 51 | 12 18 57 | 22 17 3 | 56 4 | 16 23 | 26 | 9 23 | | | | | |
| 5 | M | 16 56 47 | 13 19 55 | 22 25 18 | 9 4 | 54 20 | 4 | 9 21 | | | | | |
| 6 | Tu | 17 0 44 | 14 20 53 | 22 32 1 | 55 5 | 15 15 | 41 | 9 19 | | | | | |
| 7 | W | 17 4 40 | 15 21 52 | 22 39 15 | 17 5 | 17 10 | 40 | 9 17 | | | | | |
| 8 | Th | 17 8 37 | 16 22 51 | 22 46 28 | 14 5 | 3 5 | 20 | 9 16 | | | | | |
| 9 | F | 17 12 34 | 17 23 51 | 22 52 10 | 12 4 | 35 0 | N 5 | 9 14 | | | | | |
| 10 | S | 17 16 30 | 18 24 51 | 22 57 23 | 12 3 | 54 5 | 24 | 9 12 | | | | | |
| 11 | S | 17 20 27 | 19 25 52 | 23 2 5 | 20 3 | 3 10 | 26 | 9 10 | | | | | |
| 12 | M | 17 24 23 | 20 26 54 | 23 7 17 | 19 2 | 6 15 | 0 | 9 9 | | | | | |
| 13 | Tu | 17 28 20 | 21 27 56 | 23 11 29 | 11 1 | 3 18 | 58 | 9 7 | | | | | |
| 14 | W | 17 32 16 | 22 28 59 | 23 15 11 | 0 0 | N 2 | 22 | 9 5 | | | | | |
| 15 | Th | 17 36 13 | 23 30 2 | 23 18 22 | 48 1 | 7 24 | 23 | 9 4 | | | | | |
| 16 | F | 17 40 9 | 24 31 6 | 23 21 4 | 37 2 | 9 25 | 32 | 9 2 | | | | | |
| 17 | S | 17 44 6 | 25 32 10 | 23 28 16 | 29 3 | 6 25 | 31 | 9 1 | | | | | |
| 18 | S | 17 48 3 | 26 33 16 | 23 25 28 | 26 3 | 55 24 | 20 | 8 59 | | | | | |
| 19 | M | 17 51 59 | 27 34 22 | 23 26 10 | 30 4 | 34 22 | 1 | 8 58 | | | | | |
| 20 | Tu | 17 55 56 | 28 35 28 | 23 27 22 | 44 5 | 1 18 | 41 | 8 56 | | | | | |
| 21 | W | 17 59 52 | 29 36 35 | 23 28 5 | 11 5 | 14 14 | 29 | 8 55 | | | | | |
| 22 | Th | 18 3 49 | 0 37 43 | 23 27 17 | 55 5 | 13 9 | 35 | 8 54 | | | | | |
| 23 | F | 18 7 45 | 1 38 52 | 23 27 0 | 57 4 | 56 4 | 8 | 8 53 | | | | | |
| 24 | S | 18 11 42 | 2 40 1 | 23 26 14 | 21 4 | 22 1 | S 38 | 8 51 | | | | | |
| 25 | S | 18 15 38 | 3 41 11 | 23 24 28 | 9 3 | 32 7 | 31 | 8 50 | | | | | |
| 26 | M | 18 19 35 | 4 42 21 | 23 23 12 | 22 2 | 28 13 | 18 | 8 49 | | | | | |
| 27 | Tu | 18 23 32 | 5 43 32 | 23 20 26 | 59 1 | 12 18 | 19 | 8 48 | | | | | |
| 28 | W | 18 27 28 | 6 44 43 | 23 17 11 | 1 55 | 0 S 8 | 22 | 8 47 | | | | | |
| 29 | Th | 18 31 25 | 7 45 54 | 23 14 27 | 4 1 | 31 24 | 56 | 8 46 | | | | | |
| 30 | F | 18 35 21 | 8 47 6 | 23 10 12 | 16 2 | 46 25 | 39 | 8 45 | | | | | |
| 31 | S | 18 39 18 | 9 48 17 | 23 6 27 | 22 3 | 50 24 | 28 | 8 44 | | | | | |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 2 N 17 | 11 N 17 | 23 S 37 | 0 N 14 | 12 S 38 | 10 D 26 | |
| 4 | 2 21 | 10 55 | 2 39 | 22 54 | 1 14 | 10 17 | |
| 7 | 2 26 | 10 33 | 2 29 | 22 5 | 2 4 | 10 7 | |
| 10 | 2 30 | 10 13 | 2 21 | 21 12 | 2 36 | 9 58 | |
| 13 | 2 35 | 9 53 | 2 18 | 20 16 | 2 51 | 9 48 | |
| 16 | 2 39 | 9 35 | 2 4 | 19 15 | 2 49 | 9 39 | |
| 19 | 2 44 | 9 19 | 1 52 | 18 11 | 2 36 | 9 29 | |
| 22 | 2 49 | 9 4 | 1 39 | 17 4 | 2 16 | 9 20 | |
| 25 | 2 54 | 8 51 | 1 24 | 15 54 | 1 52 | 9 10 | |
| 28 | 2 59 | 8 39 | 1 8 | 14 43 | 1 28 | 9 1 | |
| 31 | 3 5 | 8 30 | 0 50 | 13 29 | 1 2 | 8 51 | |

| D
M | h | | ♄ | | ♅ | | ♆ | | Mutual
Aspects. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 27 27 | 29 54 | 6 24 | 25 41 | 17 24 | | | | | | | | | | ♂ |
| 2 | 27 22 | 0 8 | 6 48 | 26 47 | 16 13 | h Δ ♀ | | | | Δ | | ♂ | Δ | | ♂ |
| 3 | 27 17 | 0 21 | 7 12 | 27 53 | 14 56 | | | | | | | | | | |
| 4 | 27 13 | 0 35 | 7 35 | 28 59 | 18 34 | ♀ ∠ ♀ | | | | □ | Δ | | | | ♂ |
| 5 | 27 8 | 0 48 | 7 58 | 0 5 | 12 11 | ☉ ♂ ♀ | * | | | * | | | | | * |
| 6 | 27 3 | 1 2 | 8 21 | 1 10 | 10 50 | ♄ ∠ ♀ | | | | | | * | | ♂ | |
| 7 | 26 59 | 1 15 | 8 43 | 2 15 | 9 32 | | | | | ☾ | | | | | ☐ |
| 8 | 26 54 | 1 29 | 9 6 | 3 20 | 8 22 | ☿ Δ ♂ | | | | | | ☐ | | * | |
| 9 | 26 50 | 1 43 | 9 28 | 4 24 | 7 19 | | | | | | | | | | Δ |
| 10 | 26 45 | 1 56 | 9 49 | 5 28 | 6 27 | | | | | ☾ | | | | | |
| 11 | 26 41 | 2 10 | 10 10 | 6 32 | 5 45 | ♀ * ♀ | | | | | ♂ | | Δ | Δ | ☐ |
| 12 | 26 37 | 2 23 | 10 30 | 7 36 | 5 14 | | | | | | | | | | |
| 13 | 26 33 | 2 37 | 10 51 | 8 39 | 4 55 | ♀ ☐ ☿ | | | | | | ♂ | | | ♂ |
| 14 | 26 28 | 2 51 | 11 11 | 9 42 | 4 47 | | | | | | | | | ☐ | Δ |
| 15 | 26 24 | 3 5 | 11 30 | 10 45 | 4 48 | | | | | ♂ | | | | | |
| 16 | 26 20 | 3 18 | 11 49 | 11 47 | 4 59 | ☉ ☐ ☿ | | | | * | | | | | |
| 17 | 26 16 | 3 32 | 12 8 | 12 48 | 5 19 | | | | | | | | | | |
| 18 | 26 12 | 3 46 | 12 26 | 13 50 | 5 47 | | | | | | | | | | |
| 19 | 26 8 | 4 0 | 13 44 | 14 51 | 6 21 | | | | | ☾ | | | | | |
| 20 | 26 5 | 4 14 | 13 1 | 15 51 | 7 2 | | | | | | | | | | |
| 21 | 26 1 | 4 27 | 13 18 | 16 52 | 7 49 | | | | | Δ | Δ | | Δ | | ☐ |
| 22 | 25 57 | 4 41 | 13 35 | 17 52 | 8 41 | | | | | | | | | ♂ | |
| 23 | 25 54 | 4 55 | 13 51 | 18 51 | 9 37 | | | | | ☐ | | Δ | ☐ | | |
| 24 | 25 50 | 5 9 | 14 7 | 19 50 | 10 37 | | | | | | | | | | Δ |
| 25 | 25 47 | 5 23 | 14 22 | 20 48 | 11 40 | ♄ ∠ ♀ | * | | | * | | | | | * |
| 26 | 25 44 | 5 37 | 14 36 | 21 46 | 12 46 | | | | | | ♂ | | * | * | |
| 27 | 25 41 | 5 51 | 14 50 | 22 43 | 13 55 | ☉ ♂ ☿ | | | | | ♂ | | | | ☐ |
| 28 | 25 38 | 6 4 | 15 4 | 23 40 | 15 7 | ♂ ☐ ♀ | | | | | | | | ☐ | ♂ |
| 29 | 25 35 | 6 18 | 15 17 | 24 36 | 16 20 | | | | | | | | | | * |
| 30 | 25 32 | 6 32 | 15 29 | 25 32 | 17 36 | ☉ Δ ☿ | | | | ♂ | Δ | | ♂ | Δ | |
| 31 | 25 29 | 6 46 | 15 41 | 26 27 | 18 53 | | | | | | | Δ | | | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25'.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 23 | 5 | 2 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 3 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 4 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 38 | 8 | 5 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 6 | 2 | 6 | 59 | 4 | 15 | 22 | 20 | 2 | 9 | 6 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 7 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 8 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 9 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 | 10 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 11 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 12 |
| 0 | 40 | 26 | 11 | 21 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 46 | 13 | 13 |
| 0 | 44 | 8 | 12 | 22 | 4 | 5 | 58 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 14 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 15 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | Q | 26 | 48 | 15 | 16 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 17 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 18 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 29 | 51 | 18 | 19 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 2 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 20 |
| 1 | 10 | 7 | 19 | II | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 21 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 20 | 22 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 0 | 6 | 1 | 26 | 21 | 23 |
| 1 | 21 | 20 | 22 | 3 | 12 | 12 | 22 | 29 | 21 | 3 | 18 | 19 | 22 | 1 | 6 | 2 | 17 | 22 | 24 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 30 | 22 | 3 | 22 | 23 | 23 | 2 | 7 | 2 | 50 | 23 | 25 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 3 | 26 | 29 | 24 | 3 | 8 | 3 | 41 | 24 | 26 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 4 | 8 | 4 | 23 | 25 | 27 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 58 | 2 | 25 | 3 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 26 | 28 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 6 | 10 | 5 | 49 | 27 | 29 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 30 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 31 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 28 | 32 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 | 12 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 22 | 1 | 8 | 8 | 0 | 45 | 24 | 13 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 43 | 2 | 9 | 9 | 1 | 30 | 25 | 14 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 13 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 15 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 16 |
| 4 | 12 | 18 | 5 | 14 | 16 | 11 | 30 | 2 | 30 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 17 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 18 |
| 4 | 20 | 40 | 7 | 15 | 18 | 12 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 19 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | 30 | 20 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 31 | 21 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 29 | 32 | 22 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 33 | 23 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 34 | 24 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 48 | 35 | 25 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 37 | 36 | 26 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 37 | 27 |
| 4 | 59 | 10 | 16 | 24 | 25 | 19 | 33 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 20 | 11 | 54 | 38 | 28 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 39 | 29 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 40 | 30 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 41 | 31 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 25 | 23 | 14 | 52 | 42 | 32 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 36 | 43 | 33 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 20 | 44 | 34 |
| 5 | 29 | 30 | 23 | 30 | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 45 | 35 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 46 | 36 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 28 | 18 | 30 | 47 | 37 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 1 | 29 | 19 | 12 | 48 | 38 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 2 | 29 | 19 | 57 | 49 | 39 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 3 | 30 | 20 | 40 | 50 | 40 |
| 5 | 55 | 39 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 4 | 1 | 21 | 20 | 51 | 41 |
| 6 | 0 | Q | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 45 | 30 | 5 | 2 | 22 | 5 | 52 | 42 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 |
|----------------------------|-----|-----|----|----|----|-------|-----|-----|----|----------------------------|-----|-----|----|----|----|-------|-----|----|----|
| H. | M. | S. | ° | ' | " | ° | ' | ° | ' | H. | M. | S. | ° | ' | " | ° | ' | ° | ' |
| 8 | 8 | 46 | 0 | 5 | 3 | 32 | 8 | 18 | 31 | 10 | 8 | 23 | 0 | 2 | 25 | 13 | 29 | 11 | 20 |
| 8 | 12 | 54 | 1 | 8 | 2 | 32 | 48 | 19 | 22 | 10 | 12 | 13 | 1 | 8 | 26 | 13 | 6 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 2 | 33 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 8 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 34 | 13 | 20 | 34 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 23 |
| 8 | 25 | 19 | 4 | 9 | 5 | 34 | 55 | 31 | 35 | 10 | 23 | 36 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 36 | 5 | 10 | 6 | 35 | 37 | 32 | 36 | 10 | 27 | 23 | 5 | 6 | 29 | 15 | 43 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 36 | 19 | 32 | 37 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 37 | 1 | 33 | 38 | 10 | 34 | 54 | 7 | 8 | 30 | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 37 | 43 | 34 | 39 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 46 | 9 | 13 | 9 | 38 | 34 | 35 | 40 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 39 | 6 | 36 | 41 | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 20 | 29 |
| 8 | 53 | 51 | 11 | 15 | 10 | 39 | 47 | 35 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | 30 |
| 8 | 57 | 53 | 12 | 16 | 11 | 0m | 28 | 37 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 38 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 39 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 40 | 5 | 11 | 4 | 45 | 15 | 15 | 6 | 22 | 8 | 24 | 5 |
| 9 | 13 | 53 | 16 | 19 | 14 | 3 | 12 | 41 | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 40 | 24 | 6 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 42 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 43 | 8 | 11 | 15 | 32 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 13 | 44 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 45 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 9 | 33 | 36 | 21 | 24 | 18 | 6 | 32 | 46 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 |
| 9 | 37 | 30 | 22 | 25 | 19 | 7 | 13 | 47 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 48 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | 30 | 13 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 33 | 49 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 13 | 50 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 33 | 1 | 15 |
| 9 | 53 | 1 | 26 | 29 | 22 | 9 | 51 | 51 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 9 | 57 | 52 | 27 | 30 | 23 | 10 | 30 | 52 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 30 | 53 | 3 | 17 |
| 10 | 0 | 43 | 28 | 31 | 24 | 11 | 9 | 53 | 18 | 11 | 53 | 49 | 28 | 25 | 15 | 0 | 35 | 4 | 18 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 48 | 54 | 19 | 11 | 56 | 30 | 29 | 26 | 15 | 1 | 11 | 5 | 19 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 55 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 20 |
| 10 | 12 | 13 | 31 | 3 | 26 | 13 | 9 | 56 | 21 | 12 | 4 | 51 | 31 | 28 | 17 | 2 | 38 | 7 | 21 |
| 10 | 16 | 3 | 32 | 4 | 27 | 14 | 30 | 57 | 22 | 12 | 8 | 42 | 32 | 29 | 18 | 3 | 29 | 8 | 22 |
| 10 | 20 | 7 | 33 | 5 | 28 | 15 | 11 | 58 | 23 | 12 | 12 | 33 | 33 | 30 | 19 | 4 | 20 | 9 | 23 |
| 10 | 24 | 11 | 34 | 6 | 29 | 16 | 2 | 59 | 24 | 12 | 16 | 24 | 34 | 31 | 20 | 5 | 11 | 10 | 24 |
| 10 | 28 | 15 | 35 | 7 | 30 | 17 | 13 | 60 | 25 | 12 | 20 | 15 | 35 | 32 | 21 | 6 | 2 | 11 | 25 |
| 10 | 32 | 19 | 36 | 8 | 31 | 18 | 24 | 61 | 26 | 12 | 24 | 6 | 36 | 33 | 22 | 7 | 13 | 12 | 26 |
| 10 | 36 | 23 | 37 | 9 | 32 | 19 | 35 | 62 | 27 | 12 | 28 | 17 | 37 | 34 | 23 | 8 | 24 | 13 | 27 |
| 10 | 40 | 27 | 38 | 10 | 33 | 20 | 46 | 63 | 28 | 12 | 32 | 10 | 38 | 35 | 24 | 9 | 35 | 14 | 28 |
| 10 | 44 | 31 | 39 | 11 | 34 | 21 | 57 | 64 | 29 | 12 | 36 | 2 | 39 | 36 | 25 | 10 | 46 | 15 | 29 |
| 10 | 48 | 35 | 40 | 12 | 35 | 22 | 8 | 65 | 30 | 12 | 40 | 13 | 40 | 37 | 26 | 11 | 57 | 16 | 30 |
| 10 | 52 | 39 | 41 | 13 | 36 | 23 | 19 | 66 | 31 | 12 | 44 | 24 | 41 | 38 | 27 | 12 | 8 | 17 | 31 |
| 10 | 56 | 43 | 42 | 14 | 37 | 24 | 30 | 67 | 32 | 12 | 48 | 35 | 42 | 39 | 28 | 13 | 19 | 18 | 32 |
| 10 | 60 | 47 | 43 | 15 | 38 | 25 | 41 | 68 | 33 | 12 | 52 | 46 | 43 | 40 | 29 | 14 | 30 | 19 | 33 |
| 10 | 64 | 51 | 44 | 16 | 39 | 26 | 52 | 69 | 34 | 12 | 56 | 57 | 44 | 41 | 30 | 15 | 41 | 20 | 34 |
| 10 | 68 | 55 | 45 | 17 | 40 | 27 | 63 | 70 | 35 | 12 | 60 | 8 | 45 | 42 | 31 | 16 | 52 | 21 | 35 |
| 10 | 72 | 59 | 46 | 18 | 41 | 28 | 74 | 71 | 36 | 12 | 64 | 19 | 46 | 43 | 32 | 17 | 63 | 22 | 36 |
| 10 | 76 | 63 | 47 | 19 | 42 | 29 | 85 | 72 | 37 | 12 | 68 | 30 | 47 | 44 | 33 | 18 | 74 | 23 | 37 |
| 10 | 80 | 67 | 48 | 20 | 43 | 30 | 96 | 73 | 38 | 12 | 72 | 41 | 48 | 45 | 34 | 19 | 85 | 24 | 38 |
| 10 | 84 | 71 | 49 | 21 | 44 | 31 | 107 | 74 | 39 | 12 | 76 | 52 | 49 | 46 | 35 | 20 | 96 | 25 | 39 |
| 10 | 88 | 75 | 50 | 22 | 45 | 32 | 118 | 75 | 40 | 12 | 80 | 63 | 50 | 47 | 36 | 21 | 107 | 26 | 40 |
| 10 | 92 | 79 | 51 | 23 | 46 | 33 | 129 | 76 | 41 | 12 | 84 | 74 | 51 | 48 | 37 | 22 | 118 | 27 | 41 |
| 10 | 96 | 83 | 52 | 24 | 47 | 34 | 140 | 77 | 42 | 12 | 88 | 85 | 52 | 49 | 38 | 23 | 129 | 28 | 42 |
| 10 | 100 | 87 | 53 | 25 | 48 | 35 | 151 | 78 | 43 | 12 | 92 | 96 | 53 | 50 | 39 | 24 | 140 | 29 | 43 |
| 10 | 104 | 91 | 54 | 26 | 49 | 36 | 162 | 79 | 44 | 12 | 96 | 107 | 54 | 51 | 40 | 25 | 151 | 30 | 44 |
| 10 | 108 | 95 | 55 | 27 | 50 | 37 | 173 | 80 | 45 | 12 | 100 | 118 | 55 | 52 | 41 | 26 | 162 | 31 | 45 |
| 10 | 112 | 99 | 56 | 28 | 51 | 38 | 184 | 81 | 46 | 12 | 104 | 129 | 56 | 53 | 42 | 27 | 173 | 32 | 46 |
| 10 | 116 | 103 | 57 | 29 | 52 | 39 | 195 | 82 | 47 | 12 | 108 | 140 | 57 | 54 | 43 | 28 | 184 | 33 | 47 |
| 10 | 120 | 107 | 58 | 30 | 53 | 40 | 206 | 83 | 48 | 12 | 112 | 151 | 58 | 55 | 44 | 29 | 195 | 34 | 48 |
| 10 | 124 | 111 | 59 | 31 | 54 | 41 | 217 | 84 | 49 | 12 | 116 | 162 | 59 | 56 | 45 | 30 | 206 | 35 | 49 |
| 10 | 128 | 115 | 60 | 32 | 55 | 42 | 228 | 85 | 50 | 12 | 120 | 173 | 60 | 57 | 46 | 31 | 217 | 36 | 50 |
| 10 | 132 | 119 | 61 | 33 | 56 | 43 | 239 | 86 | 51 | 12 | 124 | 184 | 61 | 58 | 47 | 32 | 228 | 37 | 51 |
| 10 | 136 | 123 | 62 | 34 | 57 | 44 | 250 | 87 | 52 | 12 | 128 | 195 | 62 | 59 | 48 | 33 | 239 | 38 | 52 |
| 10 | 140 | 127 | 63 | 35 | 58 | 45 | 261 | 88 | 53 | 12 | 132 | 206 | 63 | 60 | 49 | 34 | 250 | 39 | 53 |
| 10 | 144 | 131 | 64 | 36 | 59 | 46 | 272 | 89 | 54 | 12 | 136 | 217 | 64 | 61 | 50 | 35 | 261 | 40 | 54 |
| 10 | 148 | 135 | 65 | 37 | 60 | 47 | 283 | 90 | 55 | 12 | 140 | 228 | 65 | 62 | 51 | 36 | 272 | 41 | 55 |
| 10 | 152 | 139 | 66 | 38 | 61 | 48 | 294 | 91 | 56 | 12 | 144 | 239 | 66 | 63 | 52 | 37 | 283 | 42 | 56 |
| 10 | 156 | 143 | 67 | 39 | 62 | 49 | 305 | 92 | 57 | 12 | 148 | 250 | 67 | 64 | 53 | 38 | 294 | 43 | 57 |
| 10 | 160 | 147 | 68 | 40 | 63 | 50 | 316 | 93 | 58 | 12 | 152 | 261 | 68 | 65 | 54 | 39 | 305 | 44 | 58 |
| 10 | 164 | 151 | 69 | 41 | 64 | 51 | 327 | 94 | 59 | 12 | 156 | 272 | 69 | 66 | 55 | 40 | 316 | 45 | 59 |
| 10 | 168 | 155 | 70 | 42 | 65 | 52 | 338 | 95 | 60 | 12 | 160 | 283 | 70 | 67 | 56 | 41 | 327 | 46 | 60 |
| 10 | 172 | 159 | 71 | 43 | 66 | 53 | 349 | 96 | 61 | 12 | 164 | 294 | 71 | 68 | 57 | 42 | 338 | 47 | 61 |
| 10 | 176 | 163 | 72 | 44 | 67 | 54 | 360 | 97 | 62 | 12 | 168 | 305 | 72 | 69 | 58 | 43 | 349 | 48 | 62 |
| 10 | 180 | 167 | 73 | 45 | 68 | 55 | 371 | 98 | 63 | 12 | 172 | 316 | 73 | 70 | 59 | 44 | 360 | 49 | 63 |
| 10 | 184 | 171 | 74 | 46 | 69 | 56 | 382 | 99 | 64 | 12 | 176 | 327 | 74 | 71 | 60 | 45 | 371 | 50 | 64 |
| 10 | 188 | 175 | 75 | 47 | 70 | 57 | 393 | 100 | 65 | 12 | 180 | 338 | 75 | 72 | 61 | 46 | 382 | 51 | 65 |
| 10 | 192 | 179 | 76 | 48 | 71 | 58 | 404 | 101 | 66 | 12 | 184 | 349 | 76 | 73 | 62 | 47 | 393 | 52 | 66 |
| 10 | 196 | 183 | 77 | 49 | 72 | 59 | 415 | 102 | 67 | 12 | 188 | 360 | 77 | 74 | 63 | 48 | 404 | 53 | 67 |
| 10 | 200 | 187 | 78 | 50 | 73 | 60 | 426 | 103 | 68 | 12 | 192 | 371 | 78 | 75 | 64 | 49 | 415 | 54 | 68 |
| 10 | 204 | 191 | 79 | 51 | 74 | 61 | 437 | 104 | 69 | 12 | 196 | 382 | 79 | 76 | 65 | 50 | 426 | 55 | 69 |
| 10 | 208 | 195 | 80 | 52 | 75 | 62 | 448 | 105 | 70 | 12 | 200 | 393 | 80 | 77 | 66 | 51 | 437 | 56 | 70 |
| 10 | 212 | 199 | 81 | 53 | 76 | 63 | 459 | 106 | 71 | 12 | 204 | 404 | 81 | 78 | 67 | 52 | 448 | 57 | 71 |
| 10 | 216 | 203 | 82 | 54 | 77 | 64 | 470 | 107 | 72 | 12 | 208 | 415 | 82 | | | | | | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|-------------------------|----|----|----|----|----|-------|----|----|----|-------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | | ° | ° | | | | ° | ° | ° | ° | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 23 | 1 | 18 | 11 | 1 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 12 | 5 | 48 | 23 | 15 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 35 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | 29 | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 22 | 18 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 23 | 20 | 16 | 56 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 31 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 22 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 3 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 34 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 28 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 3 | 6 | 58 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 5 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 6 | 13 | 29 | 12 | 5 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 30 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 24 | 29 | 0 | 31 | 30 | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 39 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 25 | 3 | 36 | 3 | 2 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 34 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 26 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 15 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 27 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 16 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 28 | 10 | 32 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 17 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 18 | 26 | 32 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 19 | 28 | 12 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 20 | 29 | 46 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 21 | 1 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 2 | 51 | 25 | 11 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 12 | 20 | 8 | 45 | 30 | 22 | 3 | 5 | 47 | 28 | 13 |

| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|-------------------------|----|----|----|----|----|-------|----|----|----|-------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | | ° | ° | | | | ° | ° | ° | ° | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 20 | 8 | 45 | 0 | 23 | 8 | 5 | 47 | 26 | 13 | 23 | 8 | 23 | 0 | 3 | 23 | 6 | 50 | 22 | 4 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 23 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 32 | 29 | 15 | 23 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 23 | 14 |
| 20 | 21 | 11 | 3 | 26 | 9 | 9 | 50 | 29 | 16 | 23 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 11 |
| 20 | 25 | 19 | 4 | 27 | 11 | 11 | 7 | 30 | 17 | 23 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 25 | 13 |
| 20 | 29 | 26 | 5 | 28 | 13 | 12 | 23 | 1 | 17 | 23 | 27 | 23 | 5 | 9 | 28 | 10 | 50 | 26 | 15 |
| 20 | 33 | 31 | 6 | 29 | 15 | 13 | 39 | 2 | 18 | 23 | 31 | 8 | 6 | 10 | 29 | 11 | 35 | 28 | 13 |
| 20 | 37 | 37 | 7 | 30 | 17 | 14 | 50 | 3 | 19 | 23 | 34 | 54 | 7 | 12 | 1 | 12 | 22 | 27 | 14 |
| 20 | 41 | 41 | 8 | 31 | 19 | 16 | 0 | 4 | 20 | 23 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 15 |
| 20 | 45 | 45 | 9 | 32 | 21 | 17 | 8 | 5 | 21 | 23 | 42 | 25 | 9 | 14 | 3 | 13 | 40 | 29 | 16 |
| 20 | 49 | 48 | 10 | 33 | 23 | 18 | 16 | 6 | 22 | 23 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 29 | 17 |
| 20 | 53 | 51 | 11 | 34 | 25 | 19 | 23 | 7 | 23 | 23 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 30 | 18 |
| 20 | 57 | 52 | 12 | 35 | 27 | 20 | 27 | 8 | 24 | 23 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 1 | 19 |
| 21 | 1 | 53 | 13 | 36 | 29 | 21 | 30 | 9 | 25 | 23 | 57 | 20 | 13 | 19 | 8 | 16 | 48 | 2 | 20 |
| 21 | 5 | 53 | 14 | 37 | 31 | 22 | 32 | 10 | 26 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 3 | 21 |
| 21 | 9 | 53 | 15 | 38 | 33 | 23 | 32 | 11 | 27 | 23 | 4 | 46 | 15 | 22 | 10 | 18 | 7 | 4 | 22 |
| 21 | 13 | 52 | 16 | 39 | 35 | 24 | 32 | 12 | 28 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 5 | 23 |
| 21 | 17 | 50 | 17 | 40 | 37 | 25 | 30 | 13 | 29 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 6 | 24 |
| 21 | 21 | 47 | 18 | 41 | 39 | 26 | 28 | 14 | 30 | 23 | 15 | 52 | 18 | 25 | 13 | 20 | 12 | 7 | 25 |
| 21 | 25 | 44 | 19 | 42 | 41 | 27 | 24 | 15 | 31 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 8 | 26 |
| 21 | 29 | 40 | 20 | 43 | 43 | 28 | 20 | 16 | 32 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 9 | 27 |
| 21 | 33 | 35 | 21 | 44 | 45 | 29 | 15 | 17 | 33 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 10 | 28 |
| 21 | 37 | 30 | 22 | 45 | 47 | 30 | 9 | 18 | 34 | 23 | 30 | 37 | 22 | 30 | 17 | 23 | 52 | 11 | 29 |
| 21 | 41 | 23 | 23 | 46 | 49 | 31 | 1 | 19 | 35 | 23 | 34 | 18 | 23 | 31 | 18 | 23 | 33 | 12 | 30 |
| 21 | 45 | 16 | 24 | 47 | 51 | 32 | 55 | 20 | 36 | 23 | 37 | 58 | 24 | 32 | 19 | 24 | 13 | 13 | 31 |
| 21 | 49 | 9 | 25 | 48 | 53 | 33 | 47 | 21 | 37 | 23 | 41 | 30 | 25 | 33 | 20 | 24 | 52 | 14 | 32 |
| 21 | 53 | 1 | 26 | 49 | 55 | 34 | 39 | 22 | 38 | 23 | 45 | 19 | 26 | 34 | 21 | 25 | 11 | 15 | 33 |
| 22 | 0 | 48 | 27 | 50 | 57 | 35 | 30 | 23 | 39 | 23 | 49 | 0 | 27 | 35 | 22 | 26 | 12 | 16 | 34 |
| 22 | 4 | 38 | 28 | 51 | 59 | 36 | 18 | 24 | 40 | 23 | 53 | 40 | 28 | 36 | 23 | 27 | 49 | 17 | 35 |
| 22 | 8 | 28 | 29 | 52 | 61 | 37 | 7 | 25 | 41 | 23 | 57 | 30 | 29 | 37 | 24 | 28 | 1 | 18 | 36 |

DR. ROOKE'S ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their STRENGTHENING and RESTORATIVE Properties. Hence their invariable success in the RELIEF and CURE of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the NERVOUS SYSTEM,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The ORIENTAL PILLS are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The SOLAR ELIXIR in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. ROOKE'S "ANTI-LANCET, OR HANDY GUIDE TO DOMESTIC MEDICINE," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained GRATIS of any Chemist, or POST FREE from Dr. ROOKE, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S BALSAMIC COUGH ELIXIR

is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Lungs.

Sold in Bottles at 1s. 6d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by JAMES M. CROSBY, Chemist, Scarborough.

Any Invalids should read Crosby's Price Treatise on "DISEASES OF THE LUNGS AND AIR VESICLES," a copy of which can be had Gratis of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR.

Opiates, Narcotics, and Squills, are too often invoked to give relief to Coughs, Colds, and all Pulmonary Diseases. Instead of such false remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which is the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR.

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says: "I have repeatedly observed how very rapidly and invariably it subdues Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as the most valuable adjunct to an otherwise strengthening treatment of this disease."

CROSBY'S BALSAMIC COUGH ELIXIR.

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR.

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR.

This medicine, which is free from opium and squills, not only cures the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

**CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR.

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

Ask your Chemist for the New Edition (GRATIS) of Crosby's Treatise on "DISEASES OF THE LUNGS AND AIR-PASSES," containing full and plain instructions for the relief and cure of all such diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

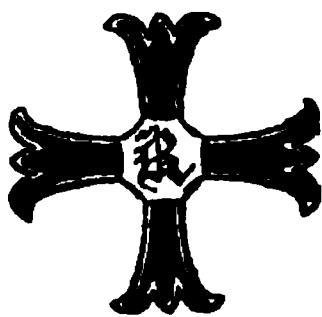
CROSBY'S BALSAMIC COUGH ELIXIR.

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1854.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1853.

Price One Shilling.

(A. m.) 937-1 156

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituuous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Rooke, under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. ROOKE, Scarborough, England.

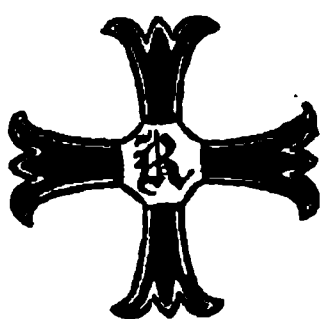
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 178 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1854.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 17 | 0 S 26 | 14 N 1 | 2 S 9 | 17 N 3 | 0 N 4 | 23 S 13 |
| 4 | 16 | 17 | 0 26 | 14 1 | 2 8 | 17 2 | 0 4 | 23 11 |
| 7 | 16 | 17 | 0 26 | 14 0 | 2 8 | 17 1 | 0 3 | 23 9 |
| 0 | 16 | 17 | 0 25 | 14 0 | 2 7 | 17 1 | 0 3 | 23 7 |
| 3 | 16 | 17 | 0 25 | 14 0 | 2 6 | 17 0 | 0 2 | 23 4 |
| 6 | 16 | 17 | 0 25 | 14 0 | 2 5 | 17 0 | 0 2 | 23 1 |
| 9 | 16 | 16 | 0 25 | 14 0 | 2 4 | 17 0 | 0 2 | 22 58 |
| 12 | 16 | 16 | 0 25 | 14 0 | 2 4 | 17 1 | 0 1 | 22 55 |
| 15 | 16 | 16 | 0 25 | 14 1 | 2 4 | 17 1 | 0 1 | 22 52 |
| 18 | 16 | 15 | 0 25 | 14 1 | 2 3 | 17 2 | 0 1 | 22 48 |
| 21 | 16 | 15 | 0 25 | 14 2 | 2 1 | 17 3 | 0 1 | 22 45 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 18 43 14 | 10 w 49 28 | 23 S 1 | 12 m 13 | 4 S 37 | 21 S 34 | 8 44 |
| 2 | M | 18 47 11 | 11 50 40 | 22 56 26 | 40 5 | 4 17 | 24 | 8 44 |
| 3 | Tu | 18 51 7 | 12 51 51 | 22 50 10 | 39 5 | 13 12 | 24 | 8 43 |
| 4 | W | 18 55 4 | 13 53 22 | 22 44 24 | 10 5 | 3 6 | 58 | 8 43 |
| 5 | Th | 18 59 1 | 14 54 12 | 22 38 7 | 13 4 | 38 1 | 24 | 8 42 |
| 6 | F | 19 2 57 | 15 55 22 | 22 31 19 | 51 4 | 0 4 | N 4 | 8 41 |
| 7 | S | 19 6 54 | 16 56 31 | 22 23 28 | 10 3 | 12 9 | 14 | 8 40 |
| 8 | S | 19 10 50 | 17 57 40 | 22 15 14 | 13 2 | 16 13 | 57 | 8 40 |
| 9 | M | 19 14 47 | 18 58 48 | 22 7 26 | 7 1 | 15 18 | 5 | 8 39 |
| 10 | Tu | 19 18 43 | 19 59 56 | 21 58 7 | 54 0 | 12 21 | 27 | 8 39 |
| 11 | W | 19 22 40 | 21 1 32 | 21 49 19 | 41 0 | N 52 | 23 | 56 8 38 |
| 12 | Th | 19 26 37 | 22 2 10 | 21 39 1 | 29 1 | 54 25 | 21 | 8 38 |
| 13 | F | 19 30 33 | 23 3 16 | 21 29 13 | 22 2 | 51 25 | 37 | 8 38 |
| 14 | S | 19 34 30 | 24 4 21 | 21 19 25 | 22 3 | 41 24 | 42 | 8 38 |
| 15 | S | 19 38 26 | 25 5 26 | 21 8 7 | 30 4 | 21 22 | 37 | 8 38 |
| 16 | M | 19 42 23 | 26 6 31 | 20 57 19 | 47 4 | 50 19 | 28 | 8 38 |
| 17 | Tu | 19 46 19 | 27 7 35 | 20 45 2 | m 15 5 | 5 15 | 25 | 8 38 |
| 18 | W | 19 50 16 | 28 8 39 | 20 33 14 | 54 5 | 6 10 | 39 | 8 D 38 |
| 19 | Th | 19 54 12 | 29 9 42 | 20 21 27 | 45 4 | 51 5 | 21 | 8 38 |
| 20 | F | 19 58 9 | 0 m 10 45 | 20 8 10 | 51 4 | 22 0 | S 17 | 8 38 |
| 21 | S | 20 2 6 | 1 11 47 | 19 55 24 | 12 3 | 37 6 | 1 | 8 39 |
| 22 | S | 20 6 2 | 2 12 49 | 19 41 7 | m 50 2 | 40 11 | 37 | 8 39 |
| 23 | M | 20 9 59 | 3 13 51 | 19 27 21 | 48 1 | 31 16 | 46 | 8 39 |
| 24 | Tu | 20 13 55 | 4 14 51 | 19 13 6 | f 5 0 | 16 21 | 5 | 8 40 |
| 25 | W | 20 17 52 | 5 15 51 | 18 58 20 | 39 1 | S 2 24 | 10 | 8 40 |
| 26 | Th | 20 21 48 | 6 16 51 | 18 43 5 | w 27 2 | 17 25 | 37 | 8 40 |
| 27 | F | 20 25 45 | 7 17 50 | 18 27 20 | 23 3 | 23 25 | 15 | 8 41 |
| 28 | S | 20 29 41 | 8 18 47 | 18 12 5 | m 19 4 | 14 23 | 4 | 8 41 |
| 29 | S | 20 33 38 | 9 19 44 | 17 56 20 | 5 4 | 49 19 | 21 | 8 42 |
| 30 | M | 20 37 35 | 10 20 40 | 17 40 4 | x 34 5 | 3 14 | 33 | 8 42 |
| 31 | Tu | 20 41 31 | 11 21 34 | 17 23 18 | 38 4 | 59 9 | 5 | 8 43 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 3 N 6 | 8 N 27 | 0 S 44 | 13 S 5 | 0 N 54 | 22 S 12 | 8 □ 48 |
| 4 | 3 12 | 8 20 | 0 22 | 11 50 | 0 29 | 22 51 | 8 39 |
| 7 | 3 18 | 8 15 | 0 1 | 10 35 | 0 5 | 23 22 | 8 29 |
| 10 | 3 24 | 8 13 | 0 N 24 | 9 19 | 0 S 16 | 23 43 | 8 19 |
| 13 | 3 29 | 8 13 | 0 50 | 8 5 | 0 38 | 23 54 | 8 10 |
| 16 | 3 35 | 8 16 | 1 20 | 6 51 | 0 56 | 23 54 | 8 0 |
| 19 | 3 41 | 8 21 | 1 50 | 5 39 | 1 15 | 23 43 | 7 51 |
| 22 | 3 46 | 8 29 | 2 23 | 4 30 | 1 30 | 23 19 | 7 41 |
| 25 | 3 51 | 8 39 | 2 56 | 3 24 | 1 43 | 22 42 | 7 32 |
| 28 | 3 56 | 8 52 | 3 32 | 2 22 | 1 53 | 21 53 | 7 22 |
| 31 | 4 0 | 9 8 | 4 9 | 1 25 | 1 59 | 20 50 | 7 12 |

| D
M | h | | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 25 8 26 | 7 w 0 | 15 m 52 | 27 m 21 | 20 f 11 | | | | | | | | | | | |
| 2 | 25 R 24 | 7 14 16 | 3 28 15 | 21 31 | | | | | | | | ☐ | | | ♈ | * |
| 3 | 25 21 | 7 28 16 | 13 29 8 | 22 52 | | | | | | * | * | | * | ♈ | | |
| 4 | 25 19 | 7 42 16 | 23 0 * 0 | 24 14 | ♄ ☐ h | | | | | | | * | | | | ☐ |
| 5 | 25 17 | 7 56 16 | 32 0 52 | 25 37 | | | | | | | | | ☐ | | | |
| 6 | 25 15 | 8 10 16 | 40 1 43 | 27 1 | | | | | | ☐ | | | | | | |
| 7 | 25 12 | 8 23 16 | 48 2 33 | 28 26 | ☉ Δ ♈ | | | | | Δ | ♈ | | | | * | Δ |
| 8 | 25 10 | 8 17 16 | 55 3 22 | 29 52 | ♄ * h | | | | | Δ | | ♈ | | Δ | | |
| 9 | 25 8 | 8 51 17 | 1 4 11 | 1 w 18 | | | | | | | | ♈ | | | | |
| 10 | 25 6 | 9 4 17 | 7 4 59 | 2 45 | | | | | | | | | | | ☐ | ☐ |
| 11 | 25 5 | 9 18 17 | 12 5 45 | 4 13 | | | | | | | | | | | | |
| 12 | 25 3 | 9 32 17 | 16 6 30 | 5 41 | | | | | | | | | | | | |
| 13 | 25 1 | 9 45 17 | 20 7 14 | 7 10 | ♄ * ♀ | | | | | ♈ | * | | ♈ | * | | Δ ♈ |
| 14 | 24 59 | 9 59 17 | 23 7 58 | 8 40 | ♄ Δ h | | | | | ♈ | | * | | | | |
| 15 | 24 58 | 10 13 17 | 25 8 40 | 10 10 | ☉ Δ h | | | | | ☐ | | | | | | |
| 16 | 24 57 | 10 27 17 | 26 9 21 | 11 41 | | | | | | | | ☐ | | | | |
| 17 | 24 56 | 10 40 17 | 27 10 1 | 13 12 | | | | | | | | | | | | |
| 18 | 24 56 | 10 54 17 | 27 10 40 | 14 44 | | | | | | | Δ | | Δ | ♈ | ♈ | Δ |
| 19 | 24 55 | 11 7 17 | R 26 11 | 17 16 | 16 | ♀ * ♄ | | | | Δ | | Δ | | ♈ | | |
| 20 | 24 54 | 11 21 17 | 25 11 53 | 17 49 | ♄ Δ ♈ | | | | | | | | ☐ | | | |
| 21 | 24 54 | 11 34 17 | 23 12 27 | 19 23 | | | | | | | | | | | | ☐ |
| 22 | 24 53 | 11 48 17 | 20 13 0 | 20 57 | | | | | | ☐ | ♈ | | * | | Δ | * |
| 23 | 24 53 | 12 1 17 | 16 13 32 | 22 32 | | | | | | | | ♈ | | * | | * |
| 24 | 24 52 | 12 15 17 | 11 14 2 | 24 8 | ♄ Δ h | | | | | * | | | | | | |
| 25 | 24 52 | 12 28 17 | 6 14 30 | 25 44 | | | | | | | | | | | ☐ | ☐ |
| 26 | 24 52 | 12 42 17 | 0 14 57 | 27 21 | | | | | | | Δ | | ♈ | | | |
| 27 | 24 D 52 | 12 55 16 | 53 15 22 | 28 58 | | | | | | | | Δ | | Δ | * | |
| 28 | 24 52 | 13 8 16 | 45 15 45 | 0 m 36 | ☉ ☐ h | | | | | ♈ | ☐ | | | | | ♈ |
| 29 | 24 53 | 13 21 16 | 36 16 6 | 2 15 | | | | | | | | ☐ | | | | |
| 30 | 24 53 | 13 34 16 | 27 16 25 | 3 54 | ♀ ♈ ♈ | | | | | * | | | | | | |
| 31 | 24 54 | 13 47 16 | 17 16 42 | 5 35 | | | | | | | | * | * | ♈ | ♈ | |

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 17 | 0 S 26 | 14 N 1 | 2 S 9 | 17 N 3 | 0 N 4 | 23 S 13 |
| 4 | 16 | 17 | 0 26 | 14 1 | 2 8 | 17 2 | 0 4 | 23 11 |
| 7 | 16 | 17 | 0 26 | 14 0 | 2 8 | 17 1 | 0 3 | 23 9 |
| 10 | 16 | 17 | 0 25 | 14 0 | 2 7 | 17 1 | 0 3 | 23 7 |
| 13 | 16 | 17 | 0 25 | 14 0 | 2 6 | 17 0 | 0 2 | 23 4 |
| 16 | 16 | 17 | 0 25 | 14 0 | 2 5 | 17 0 | 0 2 | 23 1 |
| 19 | 16 | 16 | 0 25 | 14 0 | 2 4 | 17 0 | 0 2 | 22 58 |
| 22 | 16 | 16 | 0 25 | 14 0 | 2 4 | 17 1 | 0 1 | 22 55 |
| 25 | 16 | 16 | 0 25 | 14 1 | 2 4 | 17 1 | 0 1 | 22 52 |
| 28 | 16 | 15 | 0 25 | 14 1 | 2 3 | 17 2 | 0 1 | 22 48 |
| 31 | 16 | 15 | 0 25 | 14 2 | 2 1 | 17 3 | 0 1 | 22 45 |
| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♃
Long.
° ' " | ♃
Lat.
° ' " | ♃
Declin.
° ' " | ♃
Long.
° ' " |
| 1 | S | 18 43 14 | 10 w 49 28 | 23 S 1 | 12 m 13 | 4 S 37 | 21 S 34 | 8 44 |
| 2 | M | 18 47 11 | 11 50 40 | 22 56 | 26 40 | 5 4 | 17 24 | 8 44 |
| 3 | Tu | 18 51 7 | 12 51 51 | 22 50 | 10 x 39 | 5 13 | 12 24 | 8 43 |
| 4 | W | 18 55 4 | 13 53 22 | 22 44 | 24 10 | 5 3 | 6 58 | 8 43 |
| 5 | Th | 18 59 1 | 14 54 12 | 22 38 | 7 r 13 | 4 38 | 1 24 | 8 42 |
| 6 | F | 19 2 57 | 15 55 22 | 22 31 | 19 51 | 4 0 | 4 N 4 | 8 41 |
| 7 | S | 19 6 54 | 16 56 31 | 22 23 | 2 8 10 | 3 12 | 9 14 | 8 40 |
| 8 | S | 19 10 50 | 17 57 40 | 22 15 | 14 13 | 2 16 | 13 57 | 8 40 |
| 9 | M | 19 14 47 | 18 58 48 | 22 7 | 26 7 | 1 15 | 18 5 | 8 39 |
| 10 | Tu | 19 18 43 | 19 59 56 | 21 58 | 7 n 54 | 0 12 | 21 27 | 8 39 |
| 11 | W | 19 22 40 | 21 1 32 | 21 49 | 19 41 | 0 N 52 | 23 56 | 8 38 |
| 12 | Th | 19 26 37 | 22 2 10 | 21 39 | 1 29 | 1 54 | 25 21 | 8 38 |
| 13 | F | 19 30 33 | 23 3 16 | 21 29 | 13 22 | 2 51 | 25 37 | 8 38 |
| 14 | S | 19 34 30 | 24 4 21 | 21 19 | 25 22 | 3 41 | 24 42 | 8 38 |
| 15 | S | 19 38 26 | 25 5 26 | 21 8 | 7 30 | 4 21 | 22 37 | 8 38 |
| 16 | M | 19 42 23 | 26 6 31 | 20 57 | 19 47 | 4 50 | 19 28 | 8 35 |
| 17 | Tu | 19 46 19 | 27 7 35 | 20 45 | 2 m 15 | 5 5 | 15 25 | 8 35 |
| 18 | W | 19 50 16 | 28 8 39 | 20 33 | 14 54 | 5 6 | 10 39 | 8 D 38 |
| 19 | Th | 19 54 12 | 29 9 42 | 20 21 | 27 45 | 4 51 | 5 21 | 8 38 |
| 20 | F | 19 58 9 | 0 m 10 45 | 20 8 | 10 51 | 4 22 | 0 S 17 | 8 38 |
| 21 | S | 20 2 6 | 1 11 47 | 19 55 | 24 12 | 3 37 | 6 1 | 8 39 |
| 22 | S | 20 6 2 | 2 12 49 | 19 41 | 7 m 50 | 2 40 | 11 37 | 8 39 |
| 23 | M | 20 9 59 | 3 13 51 | 19 27 | 21 48 | 1 31 | 16 46 | 8 39 |
| 24 | Tu | 20 13 55 | 4 14 51 | 19 13 | 6 f 5 | 0 16 | 21 5 | 8 40 |
| 25 | W | 20 17 52 | 5 15 51 | 18 58 | 20 39 | 1 S 2 | 24 10 | 8 40 |
| 26 | Th | 20 21 48 | 6 16 51 | 18 43 | 5 w 27 | 2 17 | 25 37 | 8 40 |
| 27 | F | 20 25 45 | 7 17 50 | 18 27 | 20 23 | 3 23 | 25 15 | 8 41 |
| 28 | S | 20 29 41 | 8 18 47 | 18 12 | 5 = 19 | 4 14 | 23 4 | 8 41 |
| 29 | S | 20 33 38 | 9 19 44 | 17 56 | 20 5 | 4 49 | 19 21 | 8 42 |
| 30 | M | 20 37 35 | 10 20 40 | 17 40 | 4 x 34 | 5 3 | 14 33 | 8 42 |
| 31 | Tu | 20 41 31 | 11 21 34 | 17 23 | 18 38 | 4 59 | 9 5 | 8 43 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 3 N 6 | 8 N 27 | 0 S 44 | 13 S 5 | 0 N 54 | 22 S 12 | 8 48 |
| 4 | 3 12 | 8 20 | 0 22 | 11 50 | 0 29 | 22 51 | 8 39 |
| 7 | 3 18 | 8 15 | 0 1 | 10 35 | 0 5 | 23 22 | 8 29 |
| 10 | 3 24 | 8 13 | 0 N 24 | 9 19 | 0 S 16 | 23 43 | 8 19 |
| 13 | 3 29 | 8 13 | 0 50 | 8 5 | 0 38 | 23 54 | 8 10 |
| 16 | 3 35 | 8 16 | 1 20 | 6 51 | 0 56 | 23 54 | 8 0 |
| 19 | 3 41 | 8 21 | 1 50 | 5 39 | 1 15 | 23 43 | 7 51 |
| 22 | 3 46 | 8 29 | 2 23 | 4 30 | 1 30 | 23 19 | 7 41 |
| 25 | 3 51 | 8 39 | 2 56 | 3 24 | 1 43 | 22 42 | 7 32 |
| 28 | 3 56 | 8 52 | 3 32 | 2 22 | 1 53 | 21 53 | 7 22 |
| 31 | 4 0 | 9 8 | 4 9 | 1 25 | 1 59 | 20 50 | 7 12 |

| D
M | h | ♄ | ♊ | ♋ | ♌ | Mutual
Aspts. | | | | | | | | | | |
|--------|-------|-------|----------|-------|-------|------------------|---|---|---|---|---|---|---|---|---|--|
| | Long. | Long. | Long. | Long. | Long. | | | | | | | | | | | |
| | ° | ' | ° | ' | ° | ' | | | | | | | | | | |
| 1 | 25 26 | 7 0 | 15 52 | 27 21 | 20 11 | | | | | | | | | | | |
| 2 | 25 24 | 7 14 | 16 3 28 | 15 21 | 31 | | | | | | | | | | | |
| 3 | 25 21 | 7 28 | 16 13 29 | 8 22 | 52 | | | | | | | | | | | |
| 4 | 25 19 | 7 42 | 16 23 0 | 0 24 | 14 | ♀ ☐ ♀ | | | | | | | | | | |
| 5 | 25 17 | 7 56 | 16 32 0 | 52 25 | 37 | | | | | | | | | | | |
| 6 | 25 15 | 8 10 | 16 40 1 | 43 27 | 1 | | | | | | | | | | | |
| 7 | 25 12 | 8 23 | 16 48 2 | 33 28 | 26 | ☉ Δ ♂ | | | | | | | | | | |
| 8 | 25 10 | 8 17 | 16 55 3 | 22 29 | 52 | ♄ * ♀ | Δ | ☉ | ♂ | Δ | Δ | | | | | |
| 9 | 25 8 | 8 51 | 17 1 4 | 11 1 | 18 | | | | ♂ | | | | | | | |
| 10 | 25 6 | 9 4 | 17 7 4 | 59 2 | 45 | | | | | | ☐ | ☐ | | | | |
| 11 | 25 5 | 9 18 | 17 12 5 | 45 4 | 13 | | | | | | | | | | | |
| 12 | 25 3 | 9 32 | 17 16 6 | 30 5 | 41 | | | | | | | | | Δ | ♂ | |
| 13 | 25 1 | 9 45 | 17 20 7 | 14 7 | 10 | ♀ * ♀ | ♂ | * | | ♂ | * | | | | | |
| 14 | 24 59 | 9 59 | 17 23 7 | 58 8 | 40 | ♀ Δ ♀ | ♂ | | * | | | | | | | |
| 15 | 24 59 | 10 13 | 17 25 8 | 40 10 | 10 | ☉ Δ ♀ | | ☐ | | | | | | | | |
| 16 | 24 57 | 10 27 | 17 26 9 | 21 11 | 41 | | | | | ☐ | | | | | | |
| 17 | 24 56 | 10 40 | 17 27 10 | 1 13 | 12 | | | | | | | | | | | |
| 18 | 24 56 | 10 54 | 17 27 10 | 40 14 | 44 | | | | Δ | | Δ | ♂ | ♂ | Δ | | |
| 19 | 24 55 | 11 7 | 17 26 11 | 17 16 | 16 | ♀ * ♀ | Δ | | Δ | | | | | | | |
| 20 | 24 54 | 11 21 | 17 25 11 | 53 17 | 49 | ♀ Δ ♂ | | | | ☐ | | | | | | |
| 21 | 24 54 | 11 34 | 17 23 12 | 27 19 | 23 | | | | | | | | | | | |
| 22 | 24 53 | 11 48 | 17 20 13 | 0 20 | 57 | | | ☐ | ♂ | | * | | Δ | | | |
| 23 | 24 53 | 12 1 | 17 16 13 | 32 22 | 32 | | | | | ♂ | | * | | | | |
| 24 | 24 52 | 12 15 | 17 11 14 | 2 24 | 8 | ♀ Δ ♀ | * | | | | | | | | | |
| 25 | 24 52 | 12 28 | 17 6 14 | 30 25 | 44 | | | | | | | ☐ | ☐ | | | |
| 26 | 24 52 | 12 42 | 17 0 14 | 57 27 | 21 | | | | Δ | | ♂ | | | | | |
| 27 | 24 52 | 12 55 | 17 53 15 | 22 28 | 58 | | | | | Δ | | Δ | * | | | |
| 28 | 24 52 | 13 8 | 17 45 15 | 45 0 | 36 | ☉ ☐ ♀ | ♂ | ☐ | | | | | | | | |
| 29 | 24 53 | 13 21 | 17 36 16 | 6 2 | 15 | | | | | ☐ | | | | | | |
| 30 | 24 53 | 13 34 | 17 27 16 | 25 3 | 54 | ♀ ♂ ♂ | | * | | | | | | | | |
| 31 | 24 54 | 13 47 | 17 17 16 | 42 5 | 35 | | | | | * | * | ♂ | ♂ | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 24 | 14 N 17 | 1 S 54 | 17 N 26 | 0 S 3 | 22 S 4 |
| 4 | 16 | 8 | 0 24 | 14 19 | 1 53 | 17 30 | 0 4 | 21 39 |
| 7 | 16 | 8 | 0 24 | 14 21 | 1 52 | 17 33 | 0 4 | 21 55 |
| 10 | 16 | 7 | 0 24 | 14 23 | 1 51 | 17 37 | 0 4 | 21 50 |
| 13 | 16 | 6 | 0 24 | 14 26 | 1 50 | 17 41 | 0 5 | 21 46 |
| 16 | 16 | 5 | 0 24 | 14 28 | 1 49 | 17 45 | 0 5 | 21 41 |
| 19 | 16 | 4 | 0 24 | 14 31 | 1 49 | 17 49 | 0 5 | 21 37 |
| 22 | 16 | 4 | 0 24 | 14 34 | 1 48 | 17 53 | 0 5 | 21 33 |
| 25 | 16 | 3 | 0 24 | 14 36 | 1 48 | 17 58 | 0 6 | 21 29 |
| 28 | 16 | 2 | 0 24 | 14 39 | 1 47 | 18 2 | 0 6 | 21 25 |
| 31 | 16 | 1 | 0 24 | 14 42 | 1 46 | 18 7 | 0 6 | 21 21 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ☾
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 22 35 51 | 10 37 21 | 7 S 35 | 10 7 5 | 4 S 7 | 0 N 12 | 9 8 27 |
| 2 | Th | 22 39 48 | 11 37 31 | 7 13 23 | 13 | 3 21 | 5 55 | 9 20 |
| 3 | F | 22 43 44 | 12 37 38 | 6 50 | 5 8 58 | 2 27 | 11 13 | 9 32 |
| 4 | S | 22 47 41 | 13 37 43 | 6 27 | 18 21 | 1 26 | 15 55 | 9 34 |
| 5 | S | 22 51 37 | 14 37 46 | 6 3 | 0 11 28 | 0 23 | 19 53 | 9 36 |
| 6 | M | 22 55 34 | 15 37 47 | 5 40 | 12 24 | 0 N 40 | 22 58 | 9 38 |
| 7 | Tu | 22 59 30 | 16 37 46 | 5 17 | 24 13 | 1 41 | 25 1 | 9 40 |
| 8 | W | 23 3 27 | 17 37 43 | 4 54 | 6 5 1 | 2 37 | 25 56 | 9 42 |
| 9 | Th | 23 7 24 | 18 37 37 | 4 30 | 17 54 | 3 27 | 25 41 | 9 44 |
| 10 | F | 23 11 20 | 19 37 29 | 4 7 | 29 57 | 4 9 | 24 14 | 9 46 |
| 11 | S | 23 15 17 | 20 37 19 | 3 43 | 12 12 | 4 39 | 21 37 | 9 49 |
| 12 | S | 23 19 13 | 21 37 7 | 3 20 | 24 43 | 4 57 | 17 58 | 9 52 |
| 13 | M | 23 23 10 | 22 36 53 | 2 56 | 7 31 | 5 1 | 13 24 | 9 55 |
| 14 | Tu | 23 27 6 | 23 36 37 | 2 32 | 20 36 | 4 49 | 8 9 | 9 58 |
| 15 | W | 23 31 3 | 24 36 18 | 2 9 | 3 57 | 4 21 | 2 25 | 10 0 |
| 16 | Th | 23 34 59 | 25 35 58 | 1 45 | 17 32 | 3 38 | 3 S 31 | 10 3 |
| 17 | F | 23 38 56 | 26 35 36 | 1 21 | 1 17 | 2 42 | 9 24 | 10 5 |
| 18 | S | 23 42 53 | 27 35 13 | 0 58 | 15 9 | 1 36 | 14 52 | 10 8 |
| 19 | S | 23 46 49 | 28 34 47 | 0 34 | 29 8 | 0 23 | 19 37 | 10 11 |
| 20 | M | 23 50 46 | 29 34 20 | 0 10 | 13 11 | 0 S 52 | 23 16 | 10 14 |
| 21 | Tu | 23 54 42 | 0 33 50 | 0 N 13 | 27 16 | 2 4 | 25 30 | 10 17 |
| 22 | W | 23 58 39 | 1 33 20 | 0 37 | 11 24 | 3 8 | 26 6 | 10 20 |
| 23 | Th | 0 2 35 | 2 32 47 | 1 1 | 25 32 | 4 1 | 25 0 | 10 22 |
| 24 | F | 0 6 32 | 3 32 13 | 1 24 | 9 40 | 4 39 | 22 20 | 10 25 |
| 25 | S | 0 10 28 | 4 31 37 | 1 48 | 23 44 | 5 1 | 18 21 | 10 28 |
| 26 | S | 0 14 25 | 5 30 59 | 2 12 | 7 41 | 5 4 | 13 23 | 10 31 |
| 27 | M | 0 18 22 | 6 30 19 | 2 35 | 21 27 | 4 49 | 7 49 | 10 34 |
| 28 | Tu | 0 22 18 | 7 29 37 | 2 59 | 4 59 | 4 18 | 1 58 | 10 36 |
| 29 | W | 0 26 15 | 8 28 53 | 3 22 | 18 14 | 3 34 | 3 N 52 | 10 39 |
| 30 | Th | 0 30 11 | 9 28 7 | 3 45 | 1 11 | 2 39 | 9 24 | 10 42 |
| 31 | F | 0 34 8 | 10 27 19 | 4 9 | 18 49 | 1 38 | 14 26 | 10 45 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 4 N 15 | 12 N 56 | 9 N 8 | 0 S 2 | 0 N 36 | 0 S 85 | 5 40 |
| 4 | 4 12 | 13 20 | 8 50 | 0 46 | 1 10 | 1 N 44 | 6 31 |
| 7 | 4 10 | 13 42 | 8 33 | 1 33 | 1 57 | 3 42 | 5 21 |
| 10 | 4 2 | 14 1 | 8 10 | 2 22 | 2 36 | 5 11 | 5 12 |
| 13 | 3 59 | 14 19 | 7 48 | 3 10 | 3 7 | 6 3 | 5 2 |
| 16 | 3 54 | 14 38 | 7 19 | 3 54 | 3 26 | 6 15 | 4 53 |
| 19 | 3 46 | 14 45 | 6 46 | 4 33 | 3 32 | 5 46 | 4 43 |
| 22 | 3 40 | 14 55 | 6 13 | 5 6 | 3 31 | 4 43 | 4 34 |
| 25 | 3 38 | 15 1 | 5 35 | 5 33 | 2 54 | 3 16 | 4 24 |
| 28 | 3 25 | 15 5 | 4 58 | 5 52 | 2 14 | 1 41 | 4 15 |
| 31 | 3 17 | 15 6 | 4 23 | 6 5 | 1 29 | 0 12 | 4 5 |

| D | h | u | δ | ♀ | ♀ | J |
|----|-------|-------|-------|-------|-------|---------|
| M | Long. | Long. | Long. | Long. | Long. | |
| 1 | 25 58 | 19 42 | 6 55 | 8 58 | 27 10 | |
| 2 | 26 2 | 19 53 | 6 32 | 8 20 | 28 40 | |
| 3 | 26 6 | 20 4 | 6 8 | 7 44 | 0 6 | |
| 4 | 26 10 | 20 15 | 5 45 | 7 8 | 1 26 | |
| 5 | 26 14 | 20 26 | 5 22 | 6 34 | 2 40 | |
| 6 | 26 18 | 20 36 | 4 59 | 6 0 | 3 47 | |
| 7 | 26 22 | 20 47 | 4 36 | 5 28 | 4 47 | |
| 8 | 26 26 | 20 57 | 4 14 | 4 57 | 5 41 | |
| 9 | 26 30 | 21 8 | 3 53 | 4 29 | 6 25 | |
| 10 | 26 35 | 21 18 | 3 31 | 4 2 | 7 2 | |
| 11 | 26 39 | 21 28 | 3 10 | 3 37 | 7 31 | |
| 12 | 26 43 | 21 38 | 2 50 | 3 15 | 7 51 | ⊙ * u |
| 13 | 26 48 | 21 48 | 2 30 | 2 55 | 8 2 | □ Δ |
| 14 | 26 53 | 21 58 | 2 11 | 2 37 | 8 4 | Δ Δ ♂ ♂ |
| 15 | 26 58 | 22 8 | 1 52 | 2 22 | 7 59 | ♂ P ♂ ♂ |
| 16 | 27 3 | 22 18 | 1 34 | 2 8 | 7 45 | |
| 17 | 27 8 | 22 27 | 1 17 | 1 58 | 7 24 | Δ |
| 18 | 27 13 | 22 37 | 1 0 | 1 49 | 6 56 | ⊙ |
| 19 | 27 18 | 22 46 | 0 44 | 1 45 | 6 21 | □ Δ |
| 20 | 27 23 | 22 55 | 0 29 | 1 42 | 5 41 | |
| 21 | 27 28 | 23 4 | 0 14 | 1 41 | 4 56 | * □ |
| 22 | 27 33 | 23 13 | 0 0 | 1 43 | 4 8 | ⊙ □ |
| 23 | 27 39 | 23 22 | 29 47 | 1 47 | 3 17 | ⊙ ⊙ |
| 24 | 27 45 | 23 31 | 29 35 | 1 53 | 2 25 | ⊙ * |
| 25 | 27 51 | 23 40 | 29 23 | 2 3 | 1 32 | |
| 26 | 27 57 | 23 48 | 29 12 | 2 14 | 0 41 | ♂ |
| 27 | 28 3 | 23 56 | 29 2 | 2 26 | 29 50 | |
| 28 | 28 9 | 24 4 | 28 52 | 2 41 | 29 3 | ♂ |
| 29 | 28 16 | 24 12 | 28 43 | 2 59 | 28 20 | h |
| 30 | 28 21 | 24 20 | 28 36 | 3 19 | 27 40 | * |
| 31 | 28 27 | 24 28 | 28 29 | 3 39 | 27 5 | h |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------------------|---------------------|----------------------|---------------------|--------------------|----------------------|---------------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 2 | 0 S 24 | 14 N 43 | 1 S 46 | 18 N 8 | 0 S 6 | 21 S 20 |
| 4 | 16 | 1 | 0 24 | 14 46 | 1 45 | 18 13 | 0 7 | 21 16 |
| 7 | 16 | 0 | 0 24 | 14 49 | 1 45 | 18 17 | 0 7 | 21 13 |
| 10 | 15 | 59 | 0 23 | 14 52 | 1 45 | 18 22 | 0 8 | 21 10 |
| 13 | 15 | 58 | 0 23 | 14 55 | 1 44 | 18 27 | 0 8 | 21 7 |
| 16 | 15 | 58 | 0 23 | 14 59 | 1 44 | 18 32 | 0 9 | 21 4 |
| 19 | 15 | 57 | 0 23 | 15 2 | 1 44 | 18 36 | 0 9 | 21 2 |
| 22 | 15 | 56 | 0 23 | 15 5 | 1 43 | 18 41 | 0 9 | 20 59 |
| 25 | 15 | 55 | 0 23 | 15 8 | 1 43 | 18 46 | 0 10 | 20 58 |
| 28 | 15 | 55 | 0 23 | 15 11 | 1 42 | 18 51 | 0 10 | 20 56 |
| | | | | | | | | |
| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin
° ' " | ♃
Long.
° ' " | ♃
Lat.
° ' " | ♃
Declin
° ' " | ♃
Long.
° ' " |
| 1 | S | 0 38 4 | 11 r 26 28 | 4 N 32 | 26 8 9 | 0 S 33 | 18 N 46 | 10 8 49 |
| 2 | S | 0 42 1 | 12 25 36 | 4 55 | 8 11 16 | 0 N 32 | 22 14 | 10 52 |
| 3 | M | 0 45 57 | 13 24 41 | 5 18 | 20 12 | 1 35 | 24 40 | 10 55 |
| 4 | Tu | 0 49 54 | 14 23 43 | 5 41 | 2 55 2 | 2 33 | 26 0 | 10 56 |
| 5 | W | 0 53 51 | 15 22 44 | 6 4 | 13 51 | 3 25 | 26 8 | 11 2 |
| 6 | Th | 0 57 47 | 16 21 42 | 6 26 | 25 45 | 4 9 | 25 5 | 11 5 |
| 7 | F | 1 1 44 | 17 20 38 | 6 49 | 7 2 49 | 4 42 | 22 52 | 11 8 |
| 8 | S | 1 5 40 | 18 19 32 | 7 11 | 20 7 | 5 2 | 19 34 | 11 11 |
| 9 | S | 1 9 37 | 19 18 23 | 7 34 | 2 43 | 5 9 | 15 18 | 11 14 |
| 10 | M | 1 13 33 | 20 17 13 | 7 51 | 15 39 | 5 1 | 10 17 | 11 17 |
| 11 | Tu | 1 17 30 | 21 16 0 | 8 18 | 28 57 | 4 36 | 4 38 | 11 21 |
| 12 | W | 1 21 26 | 22 14 45 | 8 40 | 12 35 | 8 55 | 1 S 22 | 11 24 |
| 13 | Th | 1 25 23 | 23 13 28 | 9 2 | 26 31 | 3 0 | 7 27 | 11 27 |
| 14 | F | 1 29 20 | 24 12 9 | 9 24 | 10 42 | 1 52 | 13 16 | 11 30 |
| 15 | S | 1 33 16 | 25 10 48 | 9 46 | 25 1 | 0 36 | 18 27 | 11 34 |
| 16 | S | 1 37 13 | 26 9 25 | 10 6 | 9 25 | 0 S 42 | 22 35 | 11 37 |
| 17 | M | 1 41 9 | 27 8 10 | 10 28 | 23 49 | 1 58 | 25 17 | 11 40 |
| 18 | Tu | 1 45 6 | 28 6 35 | 10 49 | 8 9 | 8 6 | 26 18 | 11 44 |
| 19 | W | 1 49 2 | 29 5 7 | 11 9 | 22 23 | 4 2 | 25 35 | 11 47 |
| 20 | Th | 1 52 59 | 0 8 38 | 11 30 | 6 28 | 4 43 | 23 14 | 11 50 |
| 21 | F | 1 56 55 | 1 2 7 | 11 51 | 20 24 | 5 7 | 19 33 | 11 54 |
| 22 | S | 2 0 52 | 2 0 35 | 12 11 | 4 9 | 5 13 | 14 51 | 11 58 |
| 23 | S | 2 4 49 | 2 59 1 | 12 31 | 17 42 | 5 1 | 9 29 | 12 2 |
| 24 | M | 2 8 45 | 3 57 25 | 12 51 | 1 2 | 4 33 | 3 46 | 12 5 |
| 25 | Tu | 2 12 42 | 4 55 48 | 13 11 | 14 8 | 3 51 | 2 N 2 | 12 9 |
| 26 | W | 2 16 38 | 5 54 8 | 13 30 | 27 1 | 2 57 | 7 39 | 12 12 |
| 27 | Th | 2 20 35 | 6 52 28 | 13 49 | 9 39 | 1 56 | 12 53 | 12 16 |
| 28 | F | 2 24 31 | 7 50 45 | 14 8 | 22 4 | 0 51 | 17 29 | 12 19 |
| 29 | S | 2 28 28 | 8 49 1 | 14 27 | 4 16 | 0 N 16 | 21 17 | 12 22 |
| 30 | S | 2 32 24 | 9 47 15 | 14 46 | 16 18 | 1 22 | 24 6 | 12 26 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 3 N 15 | 15 N 6 | 4 N 13 | 6 S 7 | 1 N 13 | 0 S 15 | 4 II 2 |
| 4 | 3 7 | 15 3 | 3 40 | 6 10 | 0 26 | 1 22 | 3 53 |
| 7 | 3 0 | 14 59 | 3 7 | 6 7 | 0 S 19 | 2 6 | 3 43 |
| 10 | 2 52 | 14 52 | 2 36 | 5 57 | 0 59 | 2 28 | 3 34 |
| 13 | 2 44 | 14 42 | 2 6 | 5 41 | 1 33 | 2 27 | 3 24 |
| 16 | 2 37 | 14 31 | 1 42 | 5 18 | 1 57 | 2 6 | 3 15 |
| 19 | 2 30 | 14 18 | 1 13 | 4 51 | 2 23 | 1 26 | 3 5 |
| 22 | 2 24 | 14 3 | 0 48 | 4 19 | 2 39 | 0 30 | 2 56 |
| 25 | 2 18 | 13 46 | 0 26 | 3 41 | 2 48 | 0 N 41 | 2 46 |
| 28 | 2 9 | 13 27 | 0 7 | 3 0 | 2 53 | 2 5 | 2 37 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|--------|-------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 28 33 | 24 36 | 28 23 | 4 1 | 26 34 | | | | ♂ | Δ | □ | | * |
| 2 | 28 39 | 24 44 | 28 18 | 4 26 | 26 9 | | * | | | | | □ | |
| 3 | 28 45 | 24 51 | 28 13 | 4 52 | 25 50 | ☉ ∠ h | | | | | * | Δ | □ |
| 4 | 28 51 | 24 58 | 28 9 | 5 20 | 25 36 | | | | | | * | Δ | |
| 5 | 28 57 | 25 5 | 28 6 | 5 49 | 25 28 | ☉ P ♀ | □ | * | | | | | |
| 6 | 29 4 | 25 12 | 28 4 | 6 19 | 25 25 | | | | * | ♂ | | | Δ |
| 7 | 29 10 | 25 18 | 28 2 | 6 51 | 25 D 27 | | | □ | | | | | |
| 8 | 29 16 | 25 25 | 28 1 | 7 25 | 25 35 | | Δ | | | | | | |
| 9 | 29 23 | 25 31 | 28 1 | 8 0 | 25 48 | | | | □ | | ♂ | ♂ | |
| 10 | 29 29 | 25 38 | 28 D 2 | 8 36 | 26 5 | ☿ P ♂ | | Δ | | | | | |
| 11 | 29 36 | 25 44 | 28 3 | 9 13 | 26 26 | | | | Δ | Δ | | | ♂ |
| 12 | 29 43 | 25 50 | 28 5 | 9 52 | 26 55 | | | | | | | | |
| 13 | 29 50 | 25 56 | 28 8 | 10 32 | 27 26 | | ♂ | | | □ | * | Δ | |
| 14 | 29 57 | 26 2 | 28 12 | 11 12 | 28 1 | ♀ * ☿ | | ♂ | | | | Δ | |
| 15 | 0 4 | 26 7 | 28 16 | 11 54 | 28 41 | | | | ♂ | * | □ | | Δ |
| 16 | 0 11 | 26 13 | 28 21 | 12 37 | 29 24 | ☉ □ ♄ | | | | | | □ | |
| 17 | 0 18 | 26 18 | 28 26 | 13 21 | 0 11 | ♀ * h | Δ | | | | Δ | | □ |
| 18 | 0 25 | 26 23 | 28 32 | 14 6 | 1 0 | ☉ Δ ♂ | | Δ | | | | * | |
| 19 | 0 32 | 26 28 | 28 39 | 14 52 | 1 54 | | | | | ♂ | | | |
| 20 | 0 39 | 26 32 | 28 47 | 15 39 | 2 50 | ☉ ∠ h | □ | □ | Δ | | | | * |
| 21 | 0 46 | 26 37 | 28 55 | 16 26 | 3 49 | | | | | | | | |
| 22 | 0 53 | 26 41 | 29 4 | 17 14 | 4 51 | | * | | □ | | ♂ | ♂ | |
| 23 | 1 0 | 26 45 | 29 13 | 18 2 | 5 56 | ☉ ∠ ♀ | | * | | * | | | |
| 24 | 1 7 | 26 49 | 29 23 | 18 52 | 7 4 | | | | * | * | | | |
| 25 | 1 15 | 26 53 | 29 33 | 19 43 | 8 14 | | | | | | | | ♂ |
| 26 | 1 22 | 26 57 | 29 44 | 20 34 | 9 26 | ☉ P ♂ | | | | □ | Δ | | |
| 27 | 1 29 | 27 1 | 29 56 | 21 25 | 10 41 | | ♂ | ♂ | | | | | |
| 28 | 1 37 | 27 4 | 0 8 | 22 17 | 11 58 | | | | | Δ | | * | |
| 29 | 1 44 | 27 7 | 0 21 | 23 10 | 13 18 | | | | ♂ | | □ | | |
| 30 | 1 51 | 27 10 | 0 34 | 24 4 | 14 39 | | | | | | | | * |

MAY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 52 | 0 8 23 | 15 N 15 | 1 8 42 | 18 N 56 | 0 8 11 | 20 8 55 |
| 4 | 15 | 52 | 0 23 | 15 18 | 1 41 | 19 0 | 0 11 | 20 54 |
| 7 | 15 | 51 | 0 23 | 15 21 | 1 40 | 19 5 | 0 12 | 20 53 |
| 10 | 15 | 51 | 0 23 | 15 24 | 1 40 | 19 10 | 0 12 | 20 53 |
| 13 | 15 | 50 | 0 23 | 15 27 | 1 40 | 19 14 | 0 12 | 20 53 |
| 16 | 15 | 49 | 0 23 | 15 30 | 1 40 | 19 19 | 0 13 | 20 53 |
| 19 | 15 | 49 | 0 23 | 15 33 | 1 40 | 19 24 | 0 13 | 20 54 |
| 22 | 15 | 48 | 0 23 | 15 36 | 1 40 | 19 28 | 0 14 | 20 55 |
| 25 | 15 | 48 | 0 23 | 15 39 | 1 40 | 19 32 | 0 14 | 20 57 |
| 28 | 15 | 47 | 0 23 | 15 42 | 1 40 | 19 37 | 0 15 | 20 58 |
| 31 | 15 | 47 | 0 23 | 15 45 | 1 39 | 19 41 | 0 15 | 21 0 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 2 36 21 | 10 8 45 26 | 15 N 4 | 28 11 | 2 N 23 | 25 N 50 | 12 8 30 |
| 2 | Tu | 2 40 17 | 11 43 36 | 15 22 | 10 5 1 | 3 18 26 | 22 22 | 12 33 |
| 3 | W | 2 44 14 | 12 41 44 | 15 40 | 21 51 | 4 4 25 | 42 42 | 12 37 |
| 4 | Th | 2 58 11 | 13 39 50 | 15 57 | 3 52 45 | 4 40 23 | 52 52 | 12 40 |
| 5 | F | 2 52 7 | 14 37 54 | 16 14 | 15 48 | 5 5 20 | 57 57 | 12 44 |
| 6 | S | 2 56 4 | 15 35 56 | 16 31 | 28 5 | 5 16 17 | 5 12 | 12 47 |
| 7 | S | 3 0 0 | 16 33 56 | 16 48 | 10 40 | 5 12 12 | 24 24 | 12 51 |
| 8 | M | 3 3 57 | 17 31 55 | 17 5 | 28 37 | 4 53 7 | 1 1 | 12 54 |
| 9 | Tu | 3 7 53 | 18 29 51 | 17 21 | 6 58 | 4 18 1 | 11 11 | 12 58 |
| 10 | W | 3 11 50 | 19 27 46 | 17 37 | 20 43 | 3 26 4 | 54 54 | 13 1 |
| 11 | Th | 3 15 47 | 20 25 39 | 17 52 | 4 52 | 2 21 10 | 56 56 | 13 5 |
| 12 | F | 3 19 43 | 21 23 31 | 18 7 | 19 22 | 1 6 16 | 31 31 | 13 8 |
| 13 | S | 3 23 40 | 22 21 21 | 18 22 | 4 3 | 0 8 15 | 21 13 | 13 11 |
| 14 | S | 3 27 36 | 23 19 10 | 18 37 | 18 52 | 1 36 24 | 35 35 | 13 15 |
| 15 | M | 3 31 33 | 24 16 57 | 18 51 | 3 42 | 2 50 26 | 15 15 | 13 18 |
| 16 | Tu | 3 35 29 | 25 14 43 | 19 5 | 18 24 | 3 53 26 | 2 13 | 13 22 |
| 17 | W | 3 39 26 | 26 12 29 | 19 19 | 2 54 | 4 39 24 | 3 13 | 13 25 |
| 18 | Th | 3 43 22 | 27 10 12 | 19 33 | 17 8 | 5 8 20 | 36 36 | 13 28 |
| 19 | F | 3 47 19 | 28 7 55 | 19 46 | 1 3 | 5 17 16 | 3 13 | 13 32 |
| 20 | S | 3 51 16 | 29 5 37 | 19 58 | 14 40 | 5 9 10 | 47 47 | 13 35 |
| 21 | S | 3 55 12 | 0 11 3 18 | 20 11 | 27 58 | 4 44 5 | 9 9 | 13 39 |
| 22 | M | 3 59 9 | 1 0 58 | 20 23 | 10 59 | 4 5 0 | N 36 | 13 42 |
| 23 | Tu | 4 3 5 | 1 58 37 | 20 34 | 23 45 | 3 14 6 | 13 13 | 13 45 |
| 24 | W | 4 7 2 | 2 56 14 | 20 46 | 6 17 | 2 15 11 | 30 30 | 13 49 |
| 25 | Th | 4 10 58 | 3 53 51 | 20 57 | 18 37 | 1 10 16 | 16 16 | 13 52 |
| 26 | F | 4 14 55 | 4 51 27 | 21 7 | 0 47 | 0 3 20 | 17 17 | 13 55 |
| 27 | S | 4 18 51 | 5 49 12 | 21 18 | 12 49 | 1 N 3 23 | 24 24 | 13 59 |
| 28 | S | 4 22 48 | 6 46 35 | 21 28 | 24 44 | 2 6 25 | 27 27 | 14 2 |
| 29 | M | 4 26 45 | 7 44 7 | 21 37 | 6 35 | 3 3 26 | 21 21 | 14 5 |
| 30 | Tu | 4 30 41 | 8 41 38 | 21 46 | 18 24 | 3 52 26 | 2 14 | 14 9 |
| 31 | W | 4 34 38 | 9 39 8 | 21 55 | 0 14 | 4 32 24 | 32 32 | 14 12 |

1024 7

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 23 | 15 N 46 | 1 S 39 | 19 N 42 | 0 S 15 | 21 S 1 |
| 4 | 15 | 48 | 0 23 | 15 49 | 1 39 | 19 46 | 0 16 | 21 4 |
| 7 | 15 | 47 | 0 23 | 15 52 | 1 39 | 19 50 | 0 16 | 21 6 |
| 10 | 15 | 47 | 0 23 | 15 54 | 1 39 | 19 54 | 0 17 | 21 9 |
| 13 | 15 | 47 | 0 23 | 15 57 | 1 39 | 19 58 | 0 18 | 21 13 |
| 16 | 15 | 46 | 0 23 | 15 59 | 1 39 | 20 2 | 0 18 | 21 16 |
| 19 | 15 | 46 | 0 23 | 16 2 | 1 39 | 20 6 | 0 19 | 21 20 |
| 22 | 15 | 46 | 0 23 | 16 4 | 1 39 | 20 9 | 0 19 | 21 24 |
| 25 | 15 | 46 | 0 23 | 16 7 | 1 39 | 20 12 | 0 20 | 21 28 |
| 28 | 15 | 46 | 0 23 | 16 9 | 1 38 | 20 16 | 0 20 | 21 33 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Th | 4 38 34 | 10 36 36 | 22 N 3 | 12 2 9 | 4 N 59 | 21 N 57 | 14 15 |
| 2 | F | 4 42 31 | 11 34 4 | 22 11 | 24 12 | 5 14 | 18 24 | 14 18 |
| 3 | S | 4 46 27 | 12 31 30 | 22 19 | 6 27 | 5 15 | 14 2 | 14 21 |
| 4 | S | 4 50 24 | 13 28 55 | 22 26 | 18 59 | 5 2 | 8 59 | 14 24 |
| 5 | M | 4 54 20 | 14 26 18 | 22 33 | 1 52 | 4 33 | 3 26 | 14 27 |
| 6 | Tu | 4 58 17 | 15 23 41 | 22 40 | 15 8 | 3 49 | 2 S 27 | 14 30 |
| 7 | W | 5 2 14 | 16 21 3 | 22 46 | 28 51 | 2 50 | 8 25 | 14 33 |
| 8 | Th | 5 6 10 | 17 18 23 | 22 51 | 13 0 | 1 40 | 14 10 | 14 36 |
| 9 | F | 5 10 7 | 18 15 43 | 22 56 | 27 34 | 0 21 | 19 18 | 14 39 |
| 10 | S | 5 14 3 | 19 13 2 | 23 1 | 12 27 | 1 S 1 | 23 19 | 14 43 |
| 11 | S | 5 18 0 | 20 10 20 | 23 6 | 27 33 | 2 20 | 25 46 | 14 45 |
| 12 | M | 5 21 56 | 21 7 37 | 23 10 | 12 43 | 3 29 | 26 19 | 14 48 |
| 13 | Tu | 5 25 53 | 22 4 54 | 23 13 | 27 46 | 4 23 | 24 55 | 14 51 |
| 14 | W | 5 29 49 | 23 2 11 | 23 17 | 12 35 | 4 59 | 21 49 | 14 54 |
| 15 | Th | 5 33 46 | 23 59 27 | 23 19 | 27 3 | 5 14 | 17 25 | 14 57 |
| 16 | F | 5 37 43 | 24 56 43 | 23 22 | 11 7 | 5 10 | 12 11 | 15 0 |
| 17 | S | 5 41 39 | 25 53 58 | 23 24 | 24 45 | 4 49 | 6 30 | 15 3 |
| 18 | S | 5 45 36 | 26 51 14 | 23 25 | 7 58 | 4 12 | 0 42 | 15 6 |
| 19 | M | 5 49 32 | 27 48 29 | 23 26 | 20 50 | 3 24 | 4 N 59 | 15 8 |
| 20 | Tu | 5 53 29 | 28 45 44 | 23 27 | 3 23 | 2 27 | 10 21 | 15 11 |
| 21 | W | 5 57 25 | 29 42 59 | 23 28 | 15 42 | 1 24 | 15 13 | 15 13 |
| 22 | Th | 6 1 22 | 0 40 14 | 23 27 | 27 49 | 0 18 | 19 23 | 15 16 |
| 23 | F | 6 5 18 | 1 37 29 | 23 27 | 9 48 | 0 N 47 | 22 43 | 15 19 |
| 24 | S | 6 9 15 | 2 34 43 | 23 26 | 21 41 | 1 50 | 25 2 | 15 21 |
| 25 | S | 6 13 12 | 3 31 57 | 23 25 | 3 31 | 2 48 | 26 12 | 15 24 |
| 26 | M | 6 17 8 | 4 29 12 | 23 23 | 15 21 | 3 38 | 26 11 | 15 27 |
| 27 | Tu | 6 21 5 | 5 26 25 | 23 21 | 27 11 | 4 19 | 24 58 | 15 30 |
| 28 | W | 6 25 1 | 6 23 39 | 23 18 | 9 4 | 4 49 | 22 38 | 15 33 |
| 29 | Th | 6 28 58 | 7 20 52 | 23 15 | 21 2 | 5 6 | 19 20 | 15 35 |
| 30 | F | 6 32 54 | 8 18 5 | 23 12 | 3 8 | 5 10 | 15 11 | 15 37 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 8 | 8 N 22 | 2 S 15 | 7 N 59 | 1 N 7 | 23 N 42 | 0 11 48 |
| 4 | 1 8 | 7 48 | 2 18 | 9 5 | 1 30 | 24 40 | 0 39 |
| 7 | 0 59 | 7 13 | 2 22 | 10 10 | 1 46 | 25 13 | 0 29 |
| 10 | 0 55 | 6 37 | 2 24 | 11 14 | 1 58 | 25 23 | 0 20 |
| 13 | 0 51 | 6 1 | 2 25 | 12 17 | 2 1 | 25 10 | 0 10 |
| 16 | 0 47 | 5 24 | 2 25 | 13 18 | | | 0 1 |
| 19 | 0 43 | 4 45 | 2 25 | 14 18 | | | 29 51 |
| 22 | 0 39 | 4 7 | 2 23 | 15 16 | | | 29 42 |
| 25 | 0 36 | 3 27 | 2 20 | 16 12 | | | 29 33 |
| 28 | 0 32 | 2 47 | 2 16 | 17 5 | | | 29 23 |

| D
M | h | | u | | s | | q | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|-------|---------|-------|---------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| 1 | 5 11 58 | 27 17 | 5 11 20 | 26 17 | 6 14 50 | 14 50 | 14 50 | 14 50 | ☿ ☿ ☿ | ☿ | ☿ | | | | * |
| 2 | 6 5 27 | 27 17 | 2 11 46 | 27 10 | 17 0 | 17 0 | 17 0 | 17 0 | ☉ ☉ ☿ | | | | | ♈ | |
| 3 | 6 13 26 | 59 12 | 12 28 | 15 19 | 11 | 11 | 11 | 11 | ☉ ☉ ☿ | | | | | ♈ | |
| 4 | 6 21 26 | 56 11 | 38 29 | 20 21 | 18 | 18 | 18 | 18 | ☉ ☉ ☿ | ☿ | ☿ | | | | ☉ |
| 5 | 6 29 26 | 51 13 | 5 0 25 | 23 25 | 25 | 25 | 25 | 25 | ☉ ☉ ☿ | | ☿ | ☿ | ☿ | | |
| 6 | 6 36 26 | 47 13 | 31 1 | 30 25 | 30 | 30 | 30 | 30 | | | | | | | |
| 7 | 6 44 26 | 43 13 | 58 2 | 36 27 | 33 | 33 | 33 | 33 | | | | | | | ♈ |
| 8 | 6 52 26 | 39 14 | 25 3 | 41 29 | 35 | 35 | 35 | 35 | | | | | | | |
| 9 | 6 59 26 | 35 14 | 53 4 | 47 15 | 34 | 34 | 34 | 34 | | | | | | | |
| 10 | 7 7 26 | 30 15 | 21 5 | 53 3 | 31 | 31 | 31 | 31 | | | | | | | |
| 11 | 7 15 26 | 25 16 | 49 6 | 59 5 | 26 | 26 | 26 | 26 | | | | | | | |
| 12 | 7 23 26 | 21 16 | 17 8 | 5 7 | 18 | 18 | 18 | 18 | | | | | | | ♈ |
| 13 | 7 30 26 | 16 16 | 45 9 | 12 9 | 9 | 9 | 9 | 9 | | | | | | | |
| 14 | 7 38 26 | 11 17 | 13 10 | 18 10 | 56 | 56 | 56 | 56 | | | | | | | |
| 15 | 7 46 26 | 6 17 | 42 11 | 25 12 | 42 | 42 | 42 | 42 | | | | | | | |
| 16 | 7 53 26 | 0 18 | 11 12 | 32 14 | 25 | 25 | 25 | 25 | | | | | | | ☉ |
| 17 | 8 0 25 | 55 18 | 40 13 | 39 16 | 6 | 6 | 6 | 6 | | | | | | | |
| 18 | 8 8 25 | 49 19 | 10 14 | 46 17 | 44 | 44 | 44 | 44 | | | | | | | |
| 19 | 8 15 25 | 43 19 | 40 15 | 53 19 | 24 | 24 | 24 | 24 | | | | | | | ☉ |
| 20 | 8 23 25 | 37 20 | 10 17 | 0 20 | 54 | 54 | 54 | 54 | | | | | | | |
| 21 | 8 30 25 | 31 20 | 40 18 | 8 22 | 27 | 27 | 27 | 27 | ☉ ☉ ☿ | ☿ | ☿ | | | ♈ | * |
| 22 | 8 38 25 | 24 21 | 10 19 | 15 23 | 53 | 53 | 53 | 53 | ☉ ☉ ☿ | | ☿ | ☿ | ☿ | | |
| 23 | 8 46 25 | 18 21 | 40 20 | 23 25 | 19 | 19 | 19 | 19 | ☉ ☉ ☿ | | ☿ | ☿ | | | |
| 24 | 8 53 25 | 11 22 | 10 21 | 31 26 | 42 | 42 | 42 | 42 | | | | | | | |
| 25 | 9 0 25 | 5 22 | 41 22 | 39 28 | 3 | 3 | 3 | 3 | ☉ ☉ ☿ | ☿ | ☿ | | | | |
| 26 | 9 7 24 | 58 23 | 12 23 | 47 29 | 21 | 21 | 21 | 21 | | | * | | | | |
| 27 | 9 15 24 | 52 23 | 43 24 | 55 0 | 37 | 37 | 37 | 37 | ☉ ☉ ☿ | | | | ♈ | * | ☉ |
| 28 | 9 22 24 | 45 24 | 14 26 | 3 1 | 49 | 49 | 49 | 49 | | | | * | | | |
| 29 | 9 29 24 | 38 24 | 46 27 | 12 3 | 0 | 0 | 0 | 0 | ☉ ☉ ☿ | ☿ | ☿ | | | | |
| 30 | 9 36 24 | 31 25 | 11 28 | 20 4 | 7 | 7 | 7 | 7 | | * | | | | | ☉ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 8 23 | 16 N 11 | 1 8 38 | 20 N 19 | 0 8 21 | 21 S 36 |
| 4 | 15 | 45 | 0 23 | 16 13 | 1 38 | 20 22 | 0 21 | 21 41 |
| 7 | 15 | 45 | 0 23 | 16 15 | 1 38 | 20 25 | 0 22 | 21 45 |
| 10 | 15 | 45 | 0 23 | 16 16 | 1 38 | 20 28 | 0 22 | 21 49 |
| 13 | 15 | 45 | 0 23 | 16 18 | 1 39 | 20 30 | 0 23 | 21 54 |
| 16 | 15 | 46 | 0 23 | 16 20 | 1 39 | 20 33 | 0 23 | 21 58 |
| 19 | 15 | 46 | 0 23 | 16 21 | 1 39 | 20 35 | 0 23 | 22 2 |
| 22 | 15 | 46 | 0 23 | 16 22 | 1 39 | 20 38 | 0 24 | 22 6 |
| 25 | 15 | 46 | 0 23 | 16 24 | 1 39 | 20 40 | 0 24 | 22 10 |
| 28 | 15 | 47 | 0 23 | 16 25 | 1 40 | 20 42 | 0 24 | 22 14 |
| 31 | 15 | 47 | 0 23 | 16 26 | 1 40 | 20 44 | 0 25 | 22 18 |

| D | D | Sidereal | ☉ | ☉ | ☿ | ♂ | ♂ | ♂ |
|----|----|----------|----------|---------|-----------|--------|---------|-------|
| M | W | Time. | Long. | Declin. | Long. | Lat. | Declin. | Long. |
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 6 36 51 | 9♄15 18 | 23 N 8 | 15♃24 | 5 N 0 | 10 N 22 | 15♂39 |
| 2 | S | 6 40 48 | 10 12 30 | 23 | 4 27 55 | 4 36 | 5 3 | 15 42 |
| 3 | M | 6 44 44 | 11 9 42 | 22 | 59 10♂44 | 3 57 | 0 S 37 | 15 44 |
| 4 | Tu | 6 48 41 | 12 6 53 | 22 | 54 23 54 | 3 6 | 6 24 | 15 47 |
| 5 | W | 6 52 37 | 13 4 52 | 22 | 49 7♃28 | 2 2 | 12 6 | 15 49 |
| 6 | Th | 6 56 34 | 14 1 16 | 22 | 43 21 29 | 0 49 | 17 22 | 15 51 |
| 7 | F | 7 0 30 | 14 58 27 | 22 | 37 5 7 56 | 0 S 29 | 21 48 | 15 53 |
| 8 | S | 7 4 27 | 15 55 39 | 22 | 30 20 46 | 1 47 | 24 55 | 15 55 |
| 9 | S | 7 8 23 | 16 52 50 | 22 | 24 5 54 | 2 59 | 26 19 | 15 57 |
| 10 | M | 7 12 20 | 17 50 12 | 22 | 16 21 10 | 3 59 | 25 43 | 15 59 |
| 11 | Tu | 7 16 17 | 18 47 13 | 22 | 8 6♃25 | 4 41 | 23 13 | 16 1 |
| 12 | W | 7 20 13 | 19 44 25 | 22 | 0 21 27 | 5 4 | 19 9 | 16 3 |
| 13 | Th | 7 24 10 | 20 41 38 | 21 | 52 6 7 | 5 6 | 14 0 | 16 5 |
| 14 | F | 7 28 6 | 21 38 51 | 21 | 43 20 21 | 4 48 | 8 14 | 16 7 |
| 15 | S | 7 32 3 | 22 36 42 | 21 | 34 4 5 | 4 15 | 2 16 | 16 8 |
| 16 | S | 7 35 59 | 23 33 19 | 21 | 24 17 21 | 3 28 | 3 N 37 | 16 10 |
| 17 | M | 7 39 56 | 24 30 34 | 21 | 14 0 12 | 2 33 | 9 10 | 16 12 |
| 18 | Tu | 7 43 52 | 25 27 49 | 21 | 4 12 41 | 1 31 | 14 13 | 16 13 |
| 19 | W | 7 47 49 | 26 25 6 | 20 | 53 24 53 | 0 27 | 18 34 | 16 15 |
| 20 | Th | 7 51 46 | 27 22 23 | 20 | 42 6 54 | 0 N 38 | 22 6 | 16 17 |
| 21 | F | 7 55 42 | 28 19 41 | 20 | 31 18 46 | 1 39 | 24 38 | 16 18 |
| 22 | S | 7 59 39 | 29 17 0 | 20 | 19 0♄35 | 2 37 | 26 4 | 16 20 |
| 23 | S | 8 3 35 | 0♄14 20 | 20 | 7 12 24 | 3 27 | 26 19 | 16 22 |
| 24 | M | 8 7 32 | 1 11 41 | 19 | 55 24 14 | 4 8 | 25 21 | 16 23 |
| 25 | Tu | 8 11 28 | 2 9 2 | 19 | 42 6 9 | 4 39 | 23 15 | 16 25 |
| 26 | W | 8 15 25 | 3 6 24 | 19 | 29 18 8 | 4 57 | 20 7 | 16 26 |
| 27 | Th | 8 19 21 | 4 3 47 | 19 | 15 0♃14 | 5 2 | 16 7 | 16 28 |
| 28 | F | 8 23 18 | 5 1 10 | 19 | 2 12 29 | 4 54 | 11 26 | 16 29 |
| 29 | S | 8 27 15 | 5 58 34 | 18 | 48 24 52 | 4 32 | 6 12 | 16 30 |
| 30 | S | 8 31 11 | 6 55 58 | 18 | 33 7♂28 | 3 56 | 0 39 | 16 31 |
| 31 | M | 8 35 8 | 7 53 23 | 18 | 19 20 19 | 3 8 | 5 S 2 | 16 33 |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 23 | 16 N 26 | 1 S 40 | 20 N 44 | 0 S 25 | 22 S 19 |
| 4 | 15 | 48 | 0 23 | 16 27 | 1 40 | 20 46 | 0 25 | 22 22 |
| 7 | 15 | 49 | 0 23 | 16 27 | 1 40 | 20 48 | 0 25 | 22 25 |
| 10 | 15 | 49 | 0 23 | 16 28 | 1 40 | 20 49 | 0 25 | 22 28 |
| 13 | 15 | 50 | 0 23 | 16 28 | 1 40 | 20 51 | 0 26 | 22 31 |
| 16 | 15 | 50 | 0 23 | 16 29 | 1 41 | 20 52 | 0 26 | 22 34 |
| 19 | 15 | 51 | 0 23 | 16 29 | 1 41 | 20 53 | 0 26 | 22 36 |
| 22 | 15 | 51 | 0 23 | 16 29 | 1 41 | 20 54 | 0 27 | 22 38 |
| 25 | 15 | 52 | 0 23 | 16 29 | 1 42 | 20 55 | 0 27 | 22 40 |
| 28 | 15 | 53 | 0 23 | 16 29 | 1 42 | 20 56 | 0 27 | 22 41 |
| 31 | 15 | 53 | 0 23 | 16 28 | 1 42 | 20 56 | 0 28 | 22 43 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Tu | 8 39 4 | 8 50 49 | 18 N 4 | 3 m 26 | 2 N 9 | 10 S 39 | 16 33 |
| 2 | W | 8 43 1 | 9 48 15 | 17 49 | 16 54 | 1 15 | 15 55 | 16 34 |
| 3 | Th | 8 46 57 | 10 45 42 | 17 33 | 0 f 45 | 0 S 12 | 20 31 | 16 35 |
| 4 | F | 8 50 54 | 11 43 10 | 17 17 | 14 59 | 1 26 | 24 3 | 16 36 |
| 5 | S | 8 54 50 | 12 40 38 | 17 1 | 29 36 | 2 37 | 26 5 | 16 37 |
| 6 | S | 8 58 47 | 13 38 7 | 16 45 | 14 w 31 | 3 38 | 26 17 | 16 38 |
| 7 | M | 9 2 44 | 14 35 38 | 16 28 | 29 38 | 4 25 | 24 34 | 16 38 |
| 8 | Tu | 9 6 40 | 15 33 9 | 16 11 | 14 m 48 | 4 53 | 21 5 | 16 39 |
| 9 | W | 9 10 37 | 16 30 41 | 15 54 | 29 49 | 5 1 | 16 14 | 16 39 |
| 10 | Th | 9 14 33 | 17 28 15 | 15 37 | 14 x 32 | 4 48 | 10 31 | 16 40 |
| 11 | F | 9 18 30 | 18 25 50 | 15 19 | 28 51 | 4 18 | 4 24 | 16 41 |
| 12 | S | 9 22 26 | 19 23 26 | 15 1 | 12 r 41 | 3 33 | 1 N 45 | 16 41 |
| 13 | S | 9 26 23 | 20 21 4 | 14 43 | 26 1 | 2 38 | 7 37 | 16 42 |
| 14 | M | 9 30 19 | 21 18 43 | 14 25 | 8 x 54 | 1 36 | 12 58 | 16 42 |
| 15 | Tu | 9 34 16 | 22 16 23 | 14 6 | 21 25 | 0 31 | 17 38 | 16 42 |
| 16 | W | 9 38 13 | 23 14 6 | 13 47 | 3 □ 37 | 0 N 33 | 21 26 | 16 43 |
| 17 | Th | 9 42 9 | 24 11 50 | 13 28 | 15 36 | 1 35 | 24 15 | 16 43 |
| 18 | F | 9 46 6 | 25 9 35 | 13 9 | 27 27 | 2 32 | 25 58 | 16 43 |
| 19 | S | 9 50 2 | 26 7 22 | 12 49 | 9 16 | 3 22 | 26 30 | 16 44 |
| 20 | S | 9 53 59 | 27 5 11 | 12 30 | 21 6 | 4 4 | 25 49 | 16 44 |
| 21 | M | 9 57 55 | 28 3 2 | 12 10 | 3 0 | 4 35 | 23 57 | 16 44 |
| 22 | Tu | 10 1 52 | 29 0 54 | 11 50 | 15 0 | 4 54 | 21 1 | 16 44 |
| 23 | W | 10 5 48 | 29 58 47 | 11 29 | 27 9 | 5 0 | 17 9 | 16 44 |
| 24 | Th | 10 9 45 | 0 m 56 42 | 11 9 | 9 m 28 | 4 52 | 12 32 | 16 44 |
| 25 | F | 10 13 42 | 1 54 39 | 10 48 | 21 56 | 4 30 | 7 20 | 16 44 |
| 26 | S | 10 17 38 | 2 52 37 | 10 27 | 4 31 | 3 55 | 1 47 | 16 44 |
| 27 | S | 10 21 35 | 3 50 36 | 10 6 | 17 23 | 3 7 | 3 S 57 | 16 43 |
| 28 | M | 10 25 31 | 4 48 37 | 9 45 | 0 m 24 | 2 9 | 9 36 | 16 43 |
| 29 | Tu | 10 29 28 | 5 46 39 | 9 24 | 13 38 | 1 3 | 14 57 | 16 43 |
| 30 | W | 10 33 24 | 6 44 43 | 9 3 | 27 7 | 0 S 8 | 19 40 | 16 42 |
| 31 | Th | 10 37 21 | 7 42 48 | 8 41 | 10 f 53 | 1 20 | 23 25 | 16 42 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 S 3 | 5 S 22 | 0 S 57 | 22 N 24 | 4 S 50 | 14 N 0 | 27 8 34 |
| 4 | 0 4 | 6 6 | 0 48 | 22 21 | 4 27 | 14 51 | 27 25 |
| 7 | 0 6 | 6 51 | 0 39 | 22 13 | 3 50 | 15 44 | 27 15 |
| 10 | 0 9 | 7 36 | 0 30 | 21 59 | 3 4 | 16 35 | 27 6 |
| 13 | 0 13 | 8 21 | 0 21 | 21 39 | 2 13 | 17 17 | 26 56 |
| 16 | 0 15 | 9 5 | 0 11 | 21 14 | 1 23 | 17 44 | 26 47 |
| 19 | 0 17 | 9 49 | 0 3 | 20 43 | 0 32 | 17 51 | 26 37 |
| 22 | 0 19 | 10 33 | 0 N 6 | 20 7 | 0 6 | 17 34 | 26 28 |
| 25 | 0 22 | 11 17 | 0 15 | 19 26 | 0 N 47 | 16 52 | 26 18 |
| 28 | 0 24 | 12 1 | 0 22 | 18 40 | 1 15 | 15 43 | 26 9 |
| 31 | 0 26 | 12 44 | 0 30 | 17 49 | 1 36 | 14 11 | 25 59 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|----------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 13 11 2 | 20 30 | 13 28 | 5 36 | 6 28 | 28 | ♀ ♄ ♀ | ☐ | | | | Δ | ☐ |
| 2 | 13 8 20 | 13 14 | 4 6 | 47 | 5 46 | 46 | | | ♂ | | * | | |
| 3 | 13 14 20 | 17 14 | 41 7 | 58 | 5 7 | 7 | | | | | | | Δ |
| 4 | 13 19 20 | 10 15 | 17 9 | 9 | 4 31 | 31 | ♀ ♀ ♄ | Δ | | ♂ | | * | |
| 5 | 13 24 20 | 3 15 | 54 10 | 21 | 3 59 | 59 | | | | | | | |
| 6 | 13 29 19 | 57 16 | 30 11 | 32 | 3 32 | 32 | ☉ * ♄ | | Δ | | ♂ | ☐ | ♂ |
| 7 | 13 34 19 | 50 17 | 7 12 | 44 | 3 11 | 11 | | | | | | | ♂ |
| 8 | 13 39 19 | 44 17 | 44 13 | 55 | 2 55 | 55 | ♄ ♄ ♀ | ♂ | ☐ | Δ | | Δ | |
| 9 | 13 44 19 | 38 18 | 21 15 | 7 | 2 46 | 46 | ☉ ☐ ♄ | | | | | | |
| 10 | 13 49 19 | 32 18 | 58 16 | 18 | 2 43 | 43 | ♄ * ♀ | | * | ☐ | * | | Δ |
| 11 | 13 54 19 | 26 19 | 35 17 | 30 | 2 48 | 48 | ♄ ☐ ♂ | | | | | | Δ |
| 12 | 13 59 19 | 20 20 | 13 18 | 42 | 2 59 | 59 | | | | * | | ☐ | |
| 13 | 14 3 19 | 14 20 | 51 19 | 54 | 3 17 | 17 | ♄ ☐ ♀ | Δ | | | ☐ | ♂ | |
| 14 | 14 8 19 | 9 21 | 28 21 | 6 | 3 43 | 43 | ☉ * ♂ | | | | | | ☐ |
| 15 | 14 13 19 | 3 22 | 6 22 | 18 | 4 16 | 16 | ☉ ♄ ♀ | ☐ | ♂ | | Δ | * | |
| 16 | 14 16 18 | 58 22 | 43 23 | 30 | 4 56 | 56 | | | | | | | * |
| 17 | 14 21 18 | 53 23 | 21 24 | 42 | 5 44 | 44 | | | | ♂ | | | |
| 18 | 14 25 18 | 48 23 | 59 25 | 54 | 6 38 | 38 | ♀ ♀ ♄ | * | | | | Δ | |
| 19 | 14 29 18 | 43 24 | 37 27 | 6 | 7 39 | 39 | | | | | | | |
| 20 | 14 33 18 | 39 25 | 15 28 | 18 | 8 47 | 47 | | | * | | ♂ | ☐ | |
| 21 | 14 37 18 | 34 25 | 54 29 | 31 | 10 0 | 0 | | | | | | ♂ | |
| 22 | 14 41 18 | 30 26 | 32 0 | 43 | 11 20 | 20 | | | ☐ | * | | | ♂ |
| 23 | 14 44 18 | 26 27 | 11 1 | 56 | 12 45 | 45 | ♄ ♄ ♀ | ♂ | | | | * | |
| 24 | 14 48 18 | 22 27 | 49 3 | 8 14 | 14 | 14 | ♄ * ♀ | | | ☐ | | | |
| 25 | 14 51 18 | 18 28 | 28 4 | 21 | 15 49 | 49 | ♄ ☐ ♀ | | Δ | | Δ | | |
| 26 | 14 55 18 | 15 29 | 7 5 | 33 | 17 28 | 28 | | | | | | * | |
| 27 | 14 59 18 | 11 29 | 46 6 | 46 | 19 10 | 10 | ☉ ☐ ♄ | | | Δ | ☐ | | * |
| 28 | 15 2 18 | 8 0 | 25 7 | 59 | 20 56 | 56 | | * | | | | ♂ | |
| 29 | 15 5 18 | 5 1 | 4 9 | 12 | 22 44 | 44 | | | ♂ | | * | ☐ | |
| 30 | 15 8 18 | 2 1 | 43 10 | 25 | 24 34 | 34 | | | | | | | ☐ |
| 31 | 15 11 18 | 0 2 | 23 11 | 38 | 26 27 | 27 | | ☐ | | ♂ | | Δ | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 23 | 16 N 28 | 1 S 42 | 20 N 57 | 0 S 28 | 22 S 43 |
| 4 | 15 | 54 | 0 23 | 16 28 | 1 43 | 20 57 | 0 28 | 22 44 |
| 7 | 15 | 54 | 0 23 | 16 27 | 1 43 | 20 58 | 0 28 | 22 45 |
| 10 | 15 | 55 | 0 23 | 16 26 | 1 44 | 20 58 | 0 28 | 22 45 |
| 13 | 15 | 56 | 0 23 | 16 25 | 1 45 | 20 58 | 0 28 | 22 45 |
| 16 | 15 | 56 | 0 23 | 16 24 | 1 45 | 20 58 | 0 28 | 22 45 |
| 19 | 15 | 57 | 0 24 | 16 23 | 1 45 | 20 58 | 0 28 | 22 45 |
| 22 | 15 | 58 | 0 24 | 16 22 | 1 46 | 20 58 | 0 28 | 22 45 |
| 25 | 15 | 59 | 0 24 | 16 21 | 1 46 | 20 58 | 0 29 | 22 44 |
| 28 | 16 | 0 | 0 24 | 16 19 | 1 47 | 20 58 | 0 29 | 22 43 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|----------------------|--------------|-------------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | F | 10 | 41 | 17 | 8 ^m 40 54 | 8 N 19 | 24 1 56 | 2 S 29 | 25 S 50 | 16 4 42 |
| 2 | S | 10 | 45 | 14 | 9 39 2 | 7 57 | 9 ^m 17 | 3 29 | 26 37 | 16 3 41 |
| 3 | S | 10 | 49 | 11 | 10 37 11 | 7 35 | 23 53 | 4 18 | 25 34 | 16 41 |
| 4 | M | 10 | 53 | 8 | 11 35 22 | 7 13 | 8 ^m 39 | 4 49 | 22 46 | 16 40 |
| 5 | Tu | 10 | 57 | 4 | 12 33 34 | 6 51 | 23 29 | 5 11 | 18 26 | 16 39 |

16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 8 27 | 12 8 58 | 0 N 93 | 17 N 30 | 1 N 88 | 13 N 36 | 25 8 56 |
| 4 | 0 30 | 13 40 | 0 39 | 16 33 | 1 47 | 11 40 | 25 47 |
| 7 | 0 32 | 14 22 | 0 47 | 15 32 | 1 48 | 9 31 | 25 37 |
| 10 | 0 34 | 15 3 | 0 55 | 14 27 | 1 39 | 7 14 | 25 28 |
| 13 | 0 35 | 15 43 | 1 1 | 13 18 | 1 32 | 4 53 | 25 18 |
| 16 | 0 37 | 16 22 | 1 6 | 12 5 | 1 19 | 2 31 | 25 9 |
| 19 | 0 39 | 17 0 | 1 10 | 10 40 | 1 3 | 0 9 | 24 59 |
| 22 | 0 40 | 17 38 | 1 14 | 9 11 | 0 44 | 23 11 | 24 50 |
| 25 | 0 42 | 18 14 | 1 19 | 8 10 | 0 25 | 4 27 | 24 40 |
| 28 | 0 44 | 18 49 | 1 23 | 6 47 | 0 4 | 6 40 | 24 30 |

| D
M | h | u | ♂ | ♀ |
|--------|----------|----------|----------|----------|
| | Long. | Long. | Long. | Long. |
| | ° / | ° / | ° / | ° / |
| 1 | 16 11 14 | 17 17 57 | 3 11 3 | 12 12 51 |
| 2 | 15 17 17 | 17 18 55 | 3 41 14 | 4 |
| 3 | 15 20 17 | 17 52 | 4 21 15 | 17 |
| 4 | 15 22 17 | 17 50 | 5 0 16 | 30 |
| 5 | 15 25 17 | 17 49 | 5 40 17 | 48 |
| 6 | 15 27 17 | 17 47 | 6 19 18 | 56 |
| 7 | 15 29 17 | 17 46 | 6 59 20 | 10 |
| 8 | 15 31 17 | 17 45 | 7 40 21 | 21 |
| 9 | 15 33 17 | 17 44 | 8 21 22 | 37 |
| 10 | 15 35 17 | 17 43 | 9 1 23 | 50 |
| 11 | 15 37 17 | 17 43 | 9 41 25 | 4 |
| 12 | 15 39 17 | 17 43 | 10 21 26 | 17 |
| 13 | 15 41 17 | 17 42 | 11 2 27 | 31 |
| 14 | 15 43 17 | 17 42 | 11 42 28 | 44 |
| 15 | 15 45 17 | 17 42 | 12 23 29 | 56 |
| 16 | 15 46 17 | D 42 13 | 4 1 11 | 11 |
| 17 | 15 47 17 | 42 13 | 45 2 21 | 21 |
| 18 | 15 48 17 | 43 14 | 26 3 41 | 41 |
| 19 | 15 49 17 | 44 15 | 7 4 54 | 54 |
| 20 | 15 49 17 | 45 15 | 48 6 1 | 1 |
| 21 | 15 50 17 | 46 16 | 29 7 21 | 21 |
| 22 | 15 50 17 | 48 17 | 10 8 31 | 31 |
| 23 | 15 51 17 | 50 17 | 51 9 51 | 51 |
| 24 | 15 51 17 | 52 18 | 33 11 1 | 1 |
| 25 | 15 52 17 | 54 19 | 15 12 11 | 11 |
| 26 | 15 52 17 | 57 19 | 56 13 31 | 31 |
| 27 | 15 52 17 | 59 20 | 38 14 41 | 41 |
| 28 | 15 52 18 | 2 21 | 20 16 1 | 1 |
| 29 | 15 52 18 | 5 22 | 2 17 16 | 16 |
| 30 | 15 52 18 | 8 22 | 44 18 31 | 31 |

2
1
4
7
5
3
0
7
4
4
1
7

[illegible]

100

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 24 | 15 N 58 | 1 S 49 | 20 N 48 | 0 S 29 | 23 S 16 |
| 4 | 16 | 9 | 0 24 | 15 56 | 1 49 | 20 47 | 0 29 | 22 12 |
| 7 | 16 | 10 | 0 24 | 15 54 | 1 49 | 20 45 | 0 29 | 22 8 |
| 10 | 16 | 11 | 0 24 | 15 51 | 1 49 | 20 44 | 0 29 | 22 3 |
| 13 | 16 | 12 | 0 24 | 15 49 | 1 49 | 20 42 | 0 29 | 21 58 |
| 16 | 16 | 12 | 0 24 | 15 47 | 1 49 | 20 41 | 0 29 | 21 53 |
| 19 | 16 | 13 | 0 24 | 15 45 | 1 49 | 20 39 | 0 29 | 21 48 |
| 22 | 16 | 13 | 0 24 | 15 43 | 1 49 | 20 38 | 0 29 | 21 42 |
| 25 | 16 | 14 | 0 24 | 15 41 | 1 49 | 20 36 | 0 30 | 21 36 |
| 28 | 16 | 14 | 0 24 | 15 39 | 1 48 | 20 34 | 0 30 | 21 30 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 14 41 47 | 8 m 45 59 | 14 S 26 | 26 x 58 | 4 S 20 | 5 S 11 | 14 x 58 |
| 2 | Th | 14 45 44 | 9 46 5 | 14 45 | 10 r 37 | 3 30 | 0 N 59 | 14 R 55 |
| 3 | F | 14 49 40 | 10 46 13 | 15 4 | 24 4 | 2 29 | 7 2 | 14 52 |
| 4 | S | 14 53 37 | 11 46 23 | 15 23 | 7 x 15 | 1 22 | 12 40 | 14 50 |
| 5 | S | 14 57 33 | 12 46 34 | 15 41 | 20 12 | 0 11 | 17 38 | 14 47 |
| 6 | M | 15 1 30 | 13 46 48 | 15 59 | 2 II 52 | 0 N 59 | 21 43 | 14 45 |
| 7 | Tu | 15 5 27 | 14 47 2 | 16 17 | 15 18 | 2 5 | 24 43 | 14 43 |
| 8 | W | 15 9 23 | 15 47 19 | 16 35 | 27 30 | 3 4 | 26 30 | 14 40 |
| 9 | Th | 15 13 20 | 16 47 38 | 16 52 | 9 x 32 | 3 53 | 27 0 | 14 38 |
| 10 | F | 15 17 16 | 17 47 59 | 17 9 | 21 27 | 4 33 | 26 14 | 14 35 |
| 11 | S | 15 21 13 | 18 48 21 | 17 26 | 3 Ω 19 | 5 0 | 24 18 | 14 32 |
| 12 | S | 15 25 9 | 19 48 46 | 17 42 | 15 11 | 5 15 | 21 18 | 14 30 |
| 13 | M | 15 29 6 | 20 49 12 | 17 58 | 27 10 | 5 16 | 17 24 | 14 28 |
| 14 | Tu | 15 33 2 | 21 49 41 | 18 14 | 9 m 20 | 5 3 | 12 45 | 14 25 |
| 15 | W | 15 36 59 | 22 50 11 | 18 30 | 21 44 | 4 36 | 7 31 | 14 23 |
| 16 | Th | 15 40 56 | 23 50 43 | 18 45 | 4 x 27 | 3 55 | 1 50 | 14 21 |
| 17 | F | 15 44 52 | 24 51 17 | 19 0 | 17 31 | 3 1 | 4 S 6 | 14 18 |
| 18 | S | 15 48 49 | 25 51 52 | 19 14 | 0 m 59 | 1 55 | 10 2 | 14 16 |
| 19 | S | 15 52 45 | 26 52 30 | 19 29 | 14 49 | 0 41 | 15 38 | 14 13 |
| 20 | M | 15 56 42 | 27 53 8 | 19 42 | 28 59 | 0 S 37 | 20 33 | 14 11 |
| 21 | Tu | 16 0 38 | 28 53 48 | 19 56 | 13 f 24 | 1 55 | 24 20 | 14 8 |
| 22 | W | 16 4 35 | 29 54 30 | 20 9 | 28 0 | 3 6 | 26 32 | 14 6 |
| 23 | Th | 16 8 31 | 0 f 55 12 | 20 22 | 12 v 39 | 4 4 | 26 55 | 14 3 |
| 24 | F | 16 12 28 | 1 55 56 | 20 34 | 27 15 | 4 47 | 25 25 | 14 1 |
| 25 | S | 16 16 25 | 2 56 41 | 20 46 | 11 m 43 | 5 11 | 22 16 | 13 59 |
| 26 | S | 16 20 21 | 3 57 27 | 20 57 | 25 59 | 5 16 | 17 49 | 13 56 |
| 27 | M | 16 24 18 | 4 58 14 | 21 9 | 10 x 0 | 5 1 | 12 28 | 13 54 |
| 28 | Tu | 16 28 14 | 5 59 2 | 21 19 | 23 45 | 4 30 | 6 37 | 13 52 |
| 29 | W | 16 32 11 | 6 59 50 | 21 30 | 7 r 15 | 3 44 | 0 33 | 13 50 |
| 30 | Th | 16 36 7 | 8 0 40 | 21 40 | 20 30 | 2 46 | 5 N 27 | 13 48 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 S 0 | 23 S 42 | 1 N 17 | 9 S 44 | 2 S 52 | 23 S 24 | 22 8 42 |
| 4 | 1 1 | 23 56 | 1 13 | 11 6 | 2 48 | 23 42 | 22 33 |
| 7 | 1 2 | 24 8 | 1 9 | 12 26 | 2 30 | 23 38 | 22 23 |
| 10 | 1 3 | 24 18 | 1 4 | 13 44 | 2 2 | 23 9 | 22 14 |
| 13 | 1 4 | 24 25 | 0 58 | 14 59 | 1 19 | 22 9 | 22 4 |
| 16 | 1 4 | 24 30 | 0 52 | 16 10 | 0 22 | 20 38 | 21 55 |
| 19 | 1 5 | 24 33 | 0 47 | 17 17 | 0 N 38 | 18 46 | 21 45 |
| 22 | 1 5 | 24 33 | 0 40 | 18 20 | 1 34 | 16 57 | 21 36 |
| 25 | 1 6 | 24 31 | 0 34 | 19 19 | 2 13 | 15 38 | 21 26 |
| 28 | 1 7 | 24 26 | 0 27 | 20 13 | 2 32 | 15 3 | 21 17 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|--------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 14 51 | 21 16 | 15 47 | 28 26 | 2 2 | | | | * | | | Δ |
| 2 | 14 48 | 21 16 | 31 29 | 41 2 | 2 47 | h ☐ ♀ | | | * | | Δ | |
| 3 | 14 45 | 21 32 | 16 0 | m 56 | 3 27 | | | | | ☐ | | |
| 4 | 14 41 | 21 42 | 0 2 | 11 4 | 2 | | ♂ | | | | | ♂ |
| 5 | 14 37 | 21 50 | 18 45 | 3 27 | 4 30 | | | ♂ | | Δ | | |
| 6 | 14 33 | 21 59 | 19 30 | 4 42 | 4 52 | ☉ P H | | | | | | ♂ |
| 7 | 14 29 | 22 8 | 20 15 | 5 57 | 5 7 | ☉ ♂ H | | | ♂ | | ♂ | |
| 8 | 14 25 | 22 17 | 20 59 | 7 12 | 5 13 | | | | | | | |
| 9 | 14 21 | 22 26 | 21 44 | 8 28 | 5 11 | | | * | | | | Δ |
| 10 | 14 17 | 22 36 | 22 29 | 9 43 | 5 0 | ♈ ∨ ♂ | Δ | | | ♂ | | |
| 11 | 14 13 | 22 45 | 23 14 | 10 58 | 4 38 | | | | | | | Δ |
| 12 | 14 9 | 22 55 | 23 59 | 12 13 | 4 7 | | ☐ | ☐ | * | | | ☐ |
| 13 | 14 4 | 23 5 | 24 44 | 13 29 | 3 25 | ♈ P ♀ | | | | | Δ | ☐ |
| 14 | 14 0 | 23 15 | 25 29 | 14 44 | 2 34 | H ♂ ♀ | | Δ | ☐ | | | * |
| 15 | 13 56 | 23 25 | 26 14 | 16 0 | 1 33 | | * | | | Δ | ☐ | |
| 16 | 13 52 | 23 36 | 26 59 | 17 15 | 0 24 | ☉ * ♈ | | | | | | * |
| 17 | 13 47 | 23 46 | 27 45 | 18 31 | 29 m 8 | | | | Δ | ☐ | | |
| 18 | 13 42 | 23 57 | 28 30 | 19 46 | 27 49 | | | | | | * | |
| 19 | 13 37 | 24 7 | 29 16 | 21 2 | 26 27 | ☉ ♂ ♀ | | ♂ | | | | ♂ |
| 20 | 13 33 | 24 18 | 0 w 1 | 22 17 | 25 7 | | ♂ | | | * | | ♂ |
| 21 | 13 28 | 24 29 | 0 47 | 23 33 | 23 49 | ♀ ♂ ♀ | | | ♂ | | | |
| 22 | 13 23 | 24 40 | 1 32 | 24 48 | 22 39 | ♈ * ♀ | | | | | ♂ | |
| 23 | 13 19 | 24 51 | 2 18 | 26 4 | 21 36 | | | Δ | | | | |
| 24 | 13 14 | 25 2 | 3 4 | 27 19 | 20 43 | | * | | | ♂ | | * |
| 25 | 13 9 | 25 13 | 3 50 | 28 35 | 20 1 | | | ☐ | Δ | | | |
| 26 | 13 4 | 25 24 | 4 36 | 29 50 | 19 30 | | | | | | | ☐ |
| 27 | 12 59 | 25 35 | 5 22 | 1 6 | 19 11 | | ☐ | * | ☐ | | * | |
| 28 | 12 54 | 25 46 | 6 8 | 2 21 | 19 4 | | | | | * | | Δ |
| 29 | 12 49 | 25 57 | 6 54 | 3 37 | 19 D 7 | ☉ ∨ ♀ | Δ | | * | | ☐ | Δ |
| 30 | 12 44 | 26 9 | 7 40 | 4 52 | 19 17 | | | | | ☐ | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Decln. | Lat. | Decln. | Lat. | Decln. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 8 24 | 15 N 37 | 1 8 48 | 20 N 33 | 0 8 30 | 21 S 24 |
| 4 | 16 | 16 | 0 23 | 15 35 | 1 48 | 20 31 | 0 80 | 21 17 |
| 7 | 16 | 17 | 0 23 | 15 33 | 1 48 | 20 29 | 0 30 | 21 10 |
| 10 | 16 | 17 | 0 23 | 15 32 | 1 48 | 20 28 | 0 30 | 21 3 |
| 13 | 16 | 17 | 0 23 | 15 30 | 1 47 | 20 26 | 0 30 | 20 55 |
| 16 | 16 | 18 | 0 23 | 15 28 | 1 47 | 20 25 | 0 30 | 20 47 |
| 19 | 16 | 18 | 0 23 | 15 27 | 1 47 | 20 23 | 0 30 | 20 39 |
| 22 | 16 | 18 | 0 23 | 15 26 | 1 46 | 20 22 | 0 30 | 20 31 |
| 25 | 16 | 18 | 0 23 | 15 25 | 1 46 | 20 20 | 0 31 | 20 23 |
| 28 | 16 | 18 | 0 23 | 15 24 | 1 46 | 20 19 | 0 31 | 20 14 |
| 31 | 16 | 18 | 0 23 | 15 23 | 1 45 | 20 18 | 0 31 | 20 4 |

| D
M | Sidereal
Time. | | | ☉
Long. | | ☉
Decln. | | ♂
Long. | | ♂
Lat. | | ♂
Decln. | | ♂
Long. | |
|--------|-------------------|----|----|------------|----|-------------|----|------------|----|-----------|----|-------------|----|------------|----|
| | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 6 | 40 | 4 | 9 | 1 | 31 | 21 | 8 | 49 | 3 | 5 | 31 | 11 | N | 6 |
| 2 | 6 | 44 | 0 | 10 | 2 | 22 | 21 | 59 | 16 | 19 | 0 | 33 | 16 | 13 | 13 |
| 3 | 6 | 47 | 57 | 11 | 3 | 14 | 22 | 7 | 28 | 55 | 0 | N | 37 | 20 | 32 |
| 4 | 6 | 51 | 54 | 12 | 4 | 8 | 22 | 15 | 11 | 20 | 1 | 43 | 23 | 52 | 13 |
| 5 | 6 | 55 | 50 | 13 | 5 | 2 | 22 | 23 | 23 | 35 | 2 | 44 | 26 | 2 | 13 |
| 6 | 6 | 59 | 47 | 14 | 5 | 58 | 22 | 31 | 5 | 41 | 3 | 37 | 26 | 57 | 13 |
| 7 | Th | 17 | 3 | 44 | 15 | 6 | 54 | 22 | 38 | 17 | 40 | 4 | 19 | 26 | 34 |
| 8 | F | 17 | 7 | 40 | 16 | 7 | 52 | 22 | 44 | 29 | 33 | 4 | 50 | 24 | 59 |
| 9 | S | 17 | 11 | 36 | 17 | 8 | 50 | 22 | 50 | 11 | 24 | 5 | 8 | 23 | 18 |
| 10 | S | 17 | 16 | 33 | 18 | 9 | 50 | 22 | 56 | 23 | 16 | 5 | 13 | 18 | 42 |
| 11 | M | 17 | 19 | 30 | 19 | 10 | 51 | 23 | 1 | 5 | 13 | 5 | 5 | 14 | 20 |
| 12 | Tu | 17 | 23 | 26 | 20 | 11 | 53 | 23 | 6 | 17 | 19 | 4 | 48 | 9 | 21 |
| 13 | W | 17 | 27 | 23 | 21 | 12 | 56 | 23 | 10 | 29 | 38 | 4 | 8 | 3 | 56 |
| 14 | Th | 17 | 31 | 19 | 22 | 14 | 0 | 23 | 14 | 12 | 16 | 3 | 20 | 1 | 8 |
| 15 | F | 17 | 35 | 16 | 23 | 15 | 5 | 23 | 17 | 25 | 17 | 2 | 20 | 7 | 36 |
| 16 | S | 17 | 39 | 12 | 24 | 16 | 10 | 23 | 20 | 8 | 43 | 1 | 11 | 13 | 17 |
| 17 | S | 17 | 43 | 9 | 25 | 17 | 17 | 23 | 23 | 22 | 36 | 0 | S | 4 | 18 |
| 18 | M | 17 | 47 | 5 | 26 | 18 | 24 | 23 | 24 | 6 | 57 | 1 | 21 | 22 | 49 |
| 19 | Tu | 17 | 51 | 2 | 27 | 19 | 32 | 23 | 26 | 21 | 40 | 2 | 35 | 25 | 47 |
| 20 | W | 17 | 54 | 59 | 28 | 20 | 40 | 23 | 27 | 6 | 39 | 3 | 39 | 26 | 57 |
| 21 | Th | 17 | 58 | 55 | 29 | 21 | 49 | 23 | 28 | 21 | 45 | 4 | 29 | 26 | 8 |
| 22 | F | 18 | 2 | 52 | 0 | 22 | 58 | 23 | 28 | 6 | 48 | 5 | 0 | 23 | 25 |
| 23 | S | 18 | 6 | 48 | 1 | 24 | 7 | 23 | 27 | 21 | 40 | 5 | 10 | 19 | 11 |
| 24 | S | 18 | 10 | 45 | 2 | 25 | 17 | 23 | 26 | 6 | 12 | 5 | 0 | 13 | 53 |
| 25 | M | 18 | 14 | 41 | 3 | 26 | 26 | 23 | 25 | 20 | 22 | 4 | 31 | 7 | 58 |
| 26 | Tu | 18 | 18 | 38 | 4 | 27 | 34 | 23 | 23 | 4 | 8 | 3 | 48 | 1 | 50 |
| 27 | W | 18 | 22 | 34 | 5 | 28 | 45 | 23 | 21 | 17 | 30 | 2 | 53 | 4 | N |
| 28 | Th | 18 | 26 | 31 | 6 | 29 | 54 | 23 | 18 | 0 | 32 | 1 | 50 | 9 | 57 |
| 29 | F | 18 | 30 | 28 | 7 | 31 | 3 | 23 | 15 | 13 | 17 | 0 | 44 | 15 | 8 |
| 30 | S | 18 | 34 | 24 | 8 | 32 | 12 | 23 | 11 | 25 | 47 | 0 | N | 24 | 19 |
| 31 | S | 18 | 38 | 21 | 9 | 33 | 21 | 23 | 7 | 8 | 5 | 1 | 29 | 23 | 8 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 7 | 24 S 19 | 0 N 19 | 21 S 1 | 2 N 38 | 15 S 9 | 21 8 7 |
| 4 | 1 8 | 24 9 | 0 12 | 21 45 | 2 30 | 15 46 | 20 58 |
| 7 | 1 8 | 23 57 | 0 6 | 22 22 | 2 18 | 16 41 | 20 48 |
| 10 | 1 8 | 23 42 | 0 0 | 22 54 | 1 58 | 17 47 | 20 39 |
| 13 | 1 8 | 23 25 | 0 8 9 | 23 19 | 1 37 | 18 56 | 20 29 |
| 16 | 1 8 | 23 6 | 0 16 | 23 38 | 1 14 | 20 4 | 20 19 |
| 19 | 1 8 | 22 44 | 0 22 | 23 50 | 0 51 | 21 8 | 20 10 |
| 22 | 1 8 | 22 20 | 0 30 | 23 56 | 0 27 | 22 5 | 20 0 |
| 25 | 1 8 | 21 53 | 0 36 | 23 55 | 0 4 | 22 55 | 19 51 |
| 28 | 1 8 | 21 25 | 0 42 | 23 47 | 0 8 17 | 23 34 | 19 41 |
| 31 | 1 8 | 20 54 | 0 49 | 23 33 | 0 37 | 24 4 | 19 32 |

| D
M | h | | ♄ | | ♅ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 12 11 39 | 26 21 | 8 26 | 6 8 | 19 43 | | | | | | | | Δ | |
| 2 | 12 11 34 | 26 33 | 9 12 | 7 23 | 20 14 | | | ♈ | | | | | | ♌ |
| 3 | 12 20 26 | 54 9 | 58 8 | 38 20 | 53 | | | | | Δ | | | | |
| 4 | 12 21 26 | 57 10 | 44 9 | 53 21 | 38 | ☉ ♈ ♈ | ♈ | ♈ | | | | | | ♌ |
| 5 | 12 19 27 | 9 11 | 80 11 | 9 22 | 29 | | | | | | | | | |
| 6 | 12 14 27 | 21 12 | 16 12 | 24 23 | 25 | ♀ ♈ ♈ | | | | | | | | |
| 7 | 12 10 27 | 33 13 | 3 13 | 40 24 | 26 | | | | | | | | | |
| 8 | 12 5 27 | 45 13 | 49 14 | 55 25 | 31 | ♈ Δ ♈ | | | | | | | | Δ |
| 9 | 12 0 27 | 58 14 | 36 16 | 11 26 | 39 | | | | | | | | Δ | |
| 10 | 11 55 28 | 10 15 | 22 17 | 26 27 | 50 | | | | | | | | | □ |
| 11 | 11 50 28 | 23 16 | 9 18 | 42 29 | 4 | | | | | | | | | |
| 12 | 11 45 28 | 35 16 | 55 19 | 57 0 | 20 | | | □ | Δ | □ | | Δ | □ | |
| 13 | 11 40 28 | 48 17 | 42 21 | 13 1 | 38 | ☉ ♈ ♈ | | | | | Δ | | | * |
| 14 | 11 35 29 | 0 18 | 28 22 | 28 2 | 57 | | | | | Δ | | | | |
| 15 | 11 30 29 | 13 29 | 15 23 | 44 4 | 19 | ♈ ♌ ♈ | * | | | | □ | □ | * | |
| 16 | 11 26 29 | 26 20 | 2 24 | 59 5 | 41 | | | | ♈ | | | | | |
| 17 | 11 21 29 | 39 20 | 49 26 | 15 7 | 4 | | | | | | * | ■ | | |
| 18 | 11 16 29 | 52 21 | 35 27 | 30 8 | 29 | | | | | ♈ | | | | ♈ |
| 19 | 11 12 0 | 5 22 | 22 28 | 46 9 | 55 | ♈ ♈ ♈ | ♈ | Δ | | | | | | ♈ |
| 20 | 11 7 0 | 18 23 | 9 0 | 2 11 | 21 | ♈ ♈ ♈ | | | Δ | | | | | ♈ |
| 21 | 11 3 0 | 31 23 | 56 1 | 18 12 | 48 | | | | | | | | ♈ | |
| 22 | 10 58 0 | 44 24 | 43 2 | 33 14 | 15 | ☉ ♌ ♈ | | | | □ | Δ | ♈ | | |
| 23 | 10 54 0 | 57 25 | 30 3 | 49 15 | 43 | ♈ ♌ ♈ | | | | | | | | * |
| 24 | 10 49 1 | 11 26 | 17 5 | 4 17 | 12 | | | * | * | □ | | | | * |
| 25 | 10 45 1 | 24 27 | 4 6 | 20 18 | 41 | | | | | | | | | □ |
| 26 | 10 41 1 | 38 27 | 51 7 | 35 20 | 11 | | | □ | | * | * | * | □ | |
| 27 | 10 37 1 | 51 29 | 38 8 | 51 21 | 41 | | | | | | | | | Δ |
| 28 | 10 33 2 | 5 29 | 25 10 | 6 28 | 11 | | | | | | □ | □ | | |
| 29 | 10 29 2 | 18 0 | 12 11 | 22 24 | 42 | | | Δ | ♈ | | | | Δ | |
| 30 | 10 25 2 | 32 0 | 59 12 | 37 26 | 13 | | | | | | | | Δ | |
| 31 | 10 21 2 | 46 1 | 46 13 | 52 27 | 45 | ♈ ♈ ♈ | | | | ♈ | Δ | | | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ' | | | | ° | ° | ° | ° | ' | ° | ' |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 32 | 5 | 28 |
| 0 | 3 | 40 | 1 | 11 | 26 | 29 | 46 | 14 | 4 | 1 | 55 | 37 | 1 | 12 | 20 | 18 | 11 | 6 | 30 |
| 0 | 7 | 30 | 2 | 12 | 28 | 30 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 19 | 51 | 7 | 31 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 29 | 0 | 49 | 17 | 6 | 2 | 6 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 31 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 2 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 26 | 43 | 7 | 17 | 25 | 2 | 43 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 30 | 23 | 8 | 18 | 1 | 3 | 28 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 23 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 38 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 5 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 38 | 11 | 22 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 48 | 13 | 8 |
| 0 | 44 | 8 | 12 | 23 | 4 | 5 | 58 | 22 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 39 | 14 | 9 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 30 | 26 | 48 | 15 | 11 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 28 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 3 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 29 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 2 | 3 | 8 | 18 | 28 | 3 | 30 | 33 | 19 | 14 |
| 1 | 10 | 7 | 19 | 11 | 10 | 10 | 35 | 27 | 19 | 2 | 4 | 9 | 19 | 29 | 4 | Over | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 2 | 10 | 13 | 20 | 25 | 5 | 0 | 64 | 20 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 2 | 14 | 15 | 21 | 0 | 6 | 1 | 38 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 13 | 12 | 23 | 29 | 21 | 2 | 18 | 19 | 22 | 1 | 6 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 14 | 13 | 0 | 29 | 22 | 2 | 22 | 23 | 23 | 2 | 7 | 2 | 59 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 15 | 13 | 39 | 1 | 23 | 2 | 26 | 29 | 24 | 3 | 8 | 2 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 16 | 14 | 18 | 2 | 24 | 2 | 30 | 35 | 25 | 4 | 9 | 4 | 23 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 54 | 2 | 25 | 2 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 26 | 22 |
| 1 | 40 | 13 | 27 | 8 | 16 | 15 | 36 | 2 | 26 | 2 | 38 | 49 | 27 | 6 | 10 | 5 | 47 | 27 | 23 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 27 | 2 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 24 |
| 1 | 47 | 49 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 2 | 47 | 6 | 29 | 8 | 12 | 7 | 13 | 28 | 25 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 33 | 5 | 28 | 2 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 29 | 26 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ' | | | | ° | ° | ° | ° | ' | ° | ' |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 2 | 51 | 15 | 0 | 9 | 12 | 16 | 29 | 25 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 28 | 22 |
| 2 | 55 | 25 | 1 | 10 | 13 | 17 | 29 | 26 | 26 | 6 | 4 | 23 | 1 | 8 | 8 | 0 | 45 | 29 | 24 |
| 2 | 59 | 36 | 2 | 11 | 14 | 18 | 30 | 27 | 27 | 6 | 8 | 42 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 46 | 3 | 12 | 15 | 19 | 3 | 1 | 28 | 6 | 12 | 5 | 3 | 10 | 9 | 2 | 16 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 19 | 17 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 18 | 5 | 14 | 16 | 19 | 13 | 2 | 30 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 19 | 13 | 3 | 0 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 29 |
| 4 | 20 | 40 | 7 | 16 | 18 | 19 | 16 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 30 |
| 4 | 24 | 54 | 8 | 17 | 19 | 19 | 19 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 14 | 6 | 0 | 29 | 31 |
| 4 | 28 | 10 | 9 | 17 | 20 | 19 | 16 | 6 | 3 | 6 | 38 | 11 | 9 | 15 | 15 | 6 | 44 | 30 | 32 |
| 4 | 32 | 26 | 10 | 18 | 20 | 19 | 13 | 7 | 4 | 6 | 42 | 31 | 10 | 16 | 16 | 7 | 29 | 31 | 33 |
| 4 | 37 | 42 | 11 | 19 | 21 | 19 | 10 | 8 | 5 | 6 | 47 | 51 | 11 | 17 | 17 | 8 | 14 | 32 | 34 |
| 4 | 41 | 59 | 12 | 20 | 22 | 19 | 8 | 9 | 6 | 6 | 52 | 11 | 12 | 18 | 18 | 9 | 39 | 33 | 35 |
| 4 | 46 | 16 | 13 | 21 | 23 | 19 | 9 | 7 | 7 | 6 | 58 | 31 | 13 | 19 | 19 | 9 | 43 | 34 | 36 |
| 4 | 50 | 34 | 14 | 22 | 24 | 19 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 19 | 10 | 27 | 35 | 37 |
| 4 | 54 | 52 | 15 | 23 | 25 | 19 | 11 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 12 | 11 | 36 | 38 |
| 4 | 58 | 10 | 16 | 24 | 25 | 19 | 12 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 20 | 11 | 58 | 37 | 39 |
| 5 | 3 | 29 | 17 | 25 | 26 | 17 | 12 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 38 | 40 |
| 5 | 7 | 49 | 18 | 26 | 27 | 1 | 13 | 14 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 39 | 41 |
| 5 | 12 | 9 | 19 | 27 | 28 | 16 | 14 | 15 | 13 | 7 | 23 | 18 | 19 | 25 | 23 | 14 | 8 | 40 | 42 |
| 5 | 16 | 29 | 20 | 27 | 29 | 11 | 15 | 16 | 14 | 7 | 28 | 34 | 20 | 26 | 24 | 14 | 52 | 40 | 43 |
| 5 | 20 | 49 | 21 | 28 | 29 | 16 | 16 | 17 | 15 | 7 | 33 | 50 | 21 | 27 | 25 | 15 | 38 | 40 | 44 |
| 5 | 25 | 9 | 22 | 29 | 29 | 0 | 17 | 18 | 16 | 7 | 38 | 6 | 22 | 27 | 26 | 16 | 20 | 41 | 45 |
| 5 | 29 | 30 | 23 | 30 | 1 | 15 | 17 | 19 | 17 | 7 | 43 | 26 | 23 | 28 | 27 | 17 | 4 | 42 | 46 |
| 5 | 33 | 51 | 24 | 1 | 2 | 10 | 18 | 17 | 18 | 7 | 48 | 47 | 24 | 29 | 27 | 17 | 47 | 43 | 47 |
| 5 | 38 | 13 | 25 | 2 | 3 | 15 | 19 | 18 | 19 | 7 | 53 | 0 | 25 | 30 | 28 | 18 | 39 | 44 | 48 |
| 5 | 43 | 34 | 26 | 3 | 4 | 15 | 20 | 20 | 20 | 7 | 58 | 13 | 26 | 31 | 29 | 19 | 37 | 45 | 49 |
| 5 | 48 | 55 | 27 | 4 | 5 | 10 | 21 | 21 | 21 | 8 | 0 | 34 | 27 | 32 | 30 | 20 | 40 | 46 | 50 |
| 5 | 53 | 36 | 28 | 5 | 6 | 15 | 22 | 22 | 22 | 8 | 4 | 55 | 28 | 33 | 31 | 21 | 39 | 47 | 51 |
| 5 | 0 | 0 | 29 | 6 | 7 | 0 | 23 | 23 | 23 | 8 | 8 | 46 | 29 | 34 | 32 | 22 | 4 | 48 | 52 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | Ω | ♊ | ♋ | ♌ | | ♍ | ♎ | | | | ♏ | ♐ | ♑ | ♒ | | ♓ | ♈ |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 8 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 23 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | 30 | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | 30 | 10 | 46 | 9 | 10 | 10 | 3 | 18 | 55 | 19 | 29 |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 31 | 20 | 30 |
| 8 | 57 | 52 | 12 | 16 | 11 | 0 | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 40 | 15 | 15 | 6 | 22 | 8 | 24 | 5 |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | 30 | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 21 | 25 | 7 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 13 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | 30 | 13 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 15 |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 17 |
| 10 | 0 | 43 | 28 | 30 | 24 | 11 | 9 | 10 | 18 | 11 | 53 | 49 | 28 | 25 | 15 | 0 | 35 | 4 | 18 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 20 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 21 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ♊ | ♋ | ♌ | ♍ | | ♎ | ♏ | | | | ♐ | ♑ | ♒ | ♓ | | ♈ | ♉ |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 13 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 3 | 40 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 13 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 29 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 13 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | 30 |
| 12 | 11 | 0 | 3 | 30 | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 28 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 13 | 3 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 28 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 25 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 7 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | 30 | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 22 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0 | 45 | 20 | 9 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | 30 | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 31 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 25 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 18 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | 30 | 19 |
| 13 | 2 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 31 | 20 |
| 13 | 6 | 28 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 21 |
| 13 | 10 | 7 | 19 | 12 | 30 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 38 | 6 | 23 |
| 13 | 13 | 51 | 20 | 13 | 31 | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 13 | 17 | 35 | 21 | 14 | 31 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 13 | 21 | 20 | 22 | 15 | 32 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 13 | 25 | 6 | 23 | 15 | 32 | 17 | 38 | 29 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 29 |
| 13 | 28 | 52 | 24 | 16 | 33 | 18 | 25 | 30 | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 30 |
| 13 | 32 | 38 | 25 | 17 | 34 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 31 |
| 13 | 36 | 25 | 26 | 18 | 35 | 19 | 57 | 2 | 21 | 15 | 34 | 41 | 26 | 14 | 30 | 18 | 53 | 19 | 32 |
| 13 | 40 | 12 | 27 | 19 | 36 | 20 | 43 | 3 | 22 | 15 | 38 | 49 | 27 | 15 | 31 | 20 | 10 | 20 | 33 |
| 13 | 44 | 0 | 28 | 20 | 37 | 21 | 29 | 4 | 23 | 15 | 42 | 57 | 28 | 16 | 32 | 21 | 28 | 22 | 34 |
| 13 | 47 | 48 | 29 | 21 | 38 | 22 | 16 | 5 | 24 | 15 | 47 | 6 | 29 | 16 | 33 | 22 | 50 | 24 | 35 |
| 13 | 51 | 37 | 30 | 22 | 39 | 23 | 4 | 6 | 25 | 15 | 51 | 15 | 30 | 17 | 34 | 23 | 18 | 25 | 36 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | ' | ° | ° | H. M. S. | | | ° | ° | ° | ° | ' | ° | ° |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 30 | 28 | 8 | 18 | 4 | 23 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 13 | 5 | 46 | 23 | 15 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 35 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | 29 | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 28 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 23 | 18 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 56 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 1 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 23 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 2 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 24 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 2 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 3 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 2 | 6 | 58 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 12 | 30 |
| 17 | 7 | 40 | 18 | 5 | 23 | 27 | 41 | 5 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 25 | 0 | 7 | 2 | 30 | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 30 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 2 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 34 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 5 | 16 | 5 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 22 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 22 | 26 | 32 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 13 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 40 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 1 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 7 | 2 | 51 | 24 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 21 | 25 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 13 | 20 | 8 | 45 | 30 | 23 | 3 | 5 | 47 | 26 | 13 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | ' | ° | ° | H. M. S. | | | ° | ° | ° | ° | ' | ° | ° |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 22 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 23 | 9 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 22 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 32 | 28 | 14 | 22 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 23 | 11 |
| 20 | 21 | 11 | 3 | 27 | 9 | 9 | 50 | 29 | 15 | 22 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 12 |
| 20 | 25 | 19 | 4 | 28 | 11 | 11 | 7 | 25 | 16 | 22 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 25 | 13 |
| 20 | 29 | 26 | 5 | 29 | 13 | 12 | 23 | 1 | 17 | 22 | 27 | 22 | 5 | 9 | 29 | 10 | 50 | 26 | 14 |
| 20 | 33 | 31 | 6 | 3 | 15 | 13 | 39 | 2 | 18 | 22 | 31 | 8 | 6 | 10 | 11 | 11 | 36 | 26 | 15 |
| 20 | 37 | 37 | 7 | 2 | 17 | 14 | 50 | 3 | 19 | 22 | 34 | 54 | 7 | 12 | 1 | 12 | 22 | 27 | 16 |
| 20 | 41 | 41 | 8 | 3 | 18 | 16 | 0 | 4 | 20 | 22 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 17 |
| 20 | 45 | 45 | 9 | 4 | 20 | 17 | 8 | 5 | 21 | 22 | 42 | 25 | 9 | 14 | 3 | 13 | 49 | 29 | 18 |
| 20 | 49 | 49 | 10 | 6 | 22 | 18 | 16 | 6 | 22 | 22 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 3 | 19 |
| 20 | 53 | 51 | 11 | 7 | 24 | 19 | 22 | 7 | 23 | 22 | 49 | 53 | 11 | 17 | 5 | 16 | 17 | 1 | 20 |
| 20 | 57 | 52 | 12 | 9 | 26 | 20 | 27 | 7 | 23 | 22 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 1 | 21 |
| 21 | 1 | 53 | 13 | 10 | 27 | 21 | 30 | 8 | 24 | 22 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 2 | 22 |
| 21 | 5 | 53 | 14 | 11 | 29 | 22 | 32 | 9 | 25 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 3 | 23 |
| 21 | 9 | 53 | 15 | 12 | 3 | 23 | 32 | 10 | 26 | 23 | 4 | 46 | 15 | 22 | 10 | 18 | 7 | 4 | 24 |
| 21 | 13 | 52 | 16 | 14 | 2 | 24 | 32 | 11 | 27 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 4 | 25 |
| 21 | 17 | 50 | 17 | 15 | 4 | 25 | 30 | 12 | 28 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 5 | 26 |
| 21 | 21 | 47 | 18 | 17 | 6 | 26 | 28 | 13 | 29 | 23 | 15 | 52 | 18 | 26 | 13 | 20 | 12 | 6 | 27 |
| 21 | 25 | 44 | 19 | 18 | 7 | 27 | 24 | 14 | 30 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 6 | 28 |
| 21 | 29 | 40 | 20 | 19 | 9 | 28 | 20 | 15 | 31 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 7 | 29 |
| 21 | 33 | 36 | 21 | 21 | 10 | 29 | 15 | 16 | 32 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 8 | 30 |
| 21 | 37 | 29 | 22 | 22 | 11 | 0 | 9 | 17 | 33 | 23 | 30 | 37 | 22 | 3 | 17 | 23 | 52 | 9 | 31 |
| 21 | 41 | 23 | 23 | 23 | 12 | 1 | 2 | 18 | 34 | 23 | 34 | 18 | 23 | 1 | 18 | 23 | 33 | 10 | 32 |
| 21 | 45 | 16 | 24 | 25 | 13 | 1 | 55 | 19 | 35 | 23 | 37 | 58 | 24 | 2 | 19 | 24 | 13 | 11 | 33 |
| 21 | 49 | 9 | 25 | 26 | 14 | 2 | 47 | 20 | 36 | 23 | 41 | 39 | 25 | 4 | 20 | 24 | 53 | 12 | 34 |
| 21 | 53 | 1 | 26 | 28 | 15 | 3 | 39 | 21 | 37 | 23 | 45 | 19 | 26 | 5 | 21 | 25 | 33 | 13 | 35 |
| 21 | 56 | 53 | 27 | 29 | 16 | 4 | 30 | 22 | 38 | 23 | 49 | 0 | 27 | 6 | 22 | 26 | 11 | 14 | 36 |
| 22 | 0 | 43 | 28 | 30 | 17 | 5 | 18 | 23 | 39 | 23 | 52 | 40 | 28 | 7 | 23 | 27 | 0 | 15 | 37 |
| 22 | 4 | 29 | 29 | 1 | 18 | 6 | 7 | 24 | 40 | 23 | 56 | 29 | 29 | 8 | 24 | 28 | 27 | 16 | 38 |
| 22 | 8 | 22 | 30 | 2 | 19 | 7 | 0 | 25 | 41 | 23 | 0 | 30 | 30 | 9 | 25 | 29 | 27 | 17 | 39 |

DR. ROOKE'S ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their STRENGTHENING and RESTORATIVE Properties. Hence their invariable success in the RELIEF and CURE of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the NERVOUS SYSTEM,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The ORIENTAL PILLS are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The SOLAR ELIXIR in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "ANTI-LANCET, OR HANDY GUIDE TO DOMESTIC MEDICINE," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained GRATIS of any Chemist, or POST FREE from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, SHERIDAN KNOWLES, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S BALSAMIC COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by JAMES M. CROSBY, Chemist, Scarborough.

Invalids should read Crosby's Prize Treatise on "DISEASES OF THE LUNGS AND AIR VESSELS," a copy of which can be had Gratis of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR.

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR.

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says,—"I have repeatedly observed how very rapidly and invariably it subdued Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment for this disease."

CROSBY'S BALSAMIC COUGH ELIXIR.

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR.

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c. may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR.

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,

CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR.

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

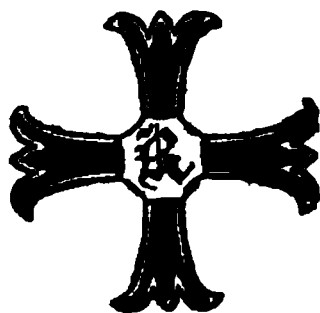
Ask your Chemist for the New Edition (GRATS) of Crosby's Price Treatise on "*DISEASES OF THE LUNGS AND AIR-VESSELS*," containing full and plain instructions for the relief and cure of these diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES
For 1855.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1853.

Price One Shilling.

(Alm.) 939 . 1 . 156

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spiritous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Roke under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. ROOKE, Scarborough, England.

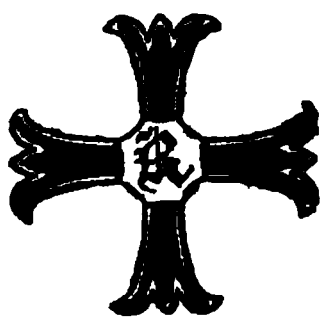
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the latest edition, containing 175 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1855.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 17 | 0 S 23 | 15 N 22 | 1 S 44 | 20 N 17 | 0 S 31 | 20 S 1 |
| 4 | 16 | 17 | 0 23 | 15 21 | 1 44 | 20 16 | 0 31 | 19 52 |
| 7 | 16 | 17 | 0 22 | 15 21 | 1 43 | 20 15 | 0 31 | 19 42 |
| 10 | 16 | 17 | 0 22 | 15 20 | 1 43 | 20 15 | 0 31 | 19 32 |
| 13 | 16 | 17 | 0 22 | 15 20 | 1 43 | 20 14 | 0 31 | 19 22 |
| 16 | 16 | 17 | 0 22 | 15 20 | 1 42 | 20 13 | 0 31 | 19 12 |
| 19 | 16 | 16 | 0 22 | 15 20 | 1 42 | 20 13 | 0 31 | 19 1 |
| 22 | 16 | 16 | 0 22 | 15 20 | 1 41 | 20 13 | 0 32 | 18 51 |
| 25 | 16 | 16 | 0 22 | 15 20 | 1 40 | 20 13 | 0 32 | 18 40 |
| 28 | 16 | 15 | 0 22 | 15 20 | 1 39 | 20 13 | 0 33 | 18 29 |
| 31 | 16 | 15 | 0 22 | 15 21 | 1 38 | 20 13 | 0 33 | 18 17 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|-----------------------|--------------|---------------------|-----------|--------------|--------------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 18 42 17 | 10 ^w 84 30 | 23 S 2 | 20 ^{II} 15 | 2 N 29 | 25 N 35 | 12 ^c 54 |
| 2 | Tu | 18 46 14 | 11 35 38 | 22 57 | 2 [☿] 19 | 3 22 | 26 48 | 12 ^B 53 |
| 3 | W | 18 50 10 | 12 36 47 | 22 52 | 14 18 | 4 5 | 26 45 | 12 52 |
| 4 | Th | 18 54 7 | 13 37 55 | 22 46 | 26 12 | 4 37 | 25 28 | 12 51 |
| 5 | F | 18 58 3 | 14 39 3 | 22 39 | 8 [♊] 5 | 4 57 | 23 3 | 12 50 |
| 6 | S | 19 2 0 | 15 40 12 | 22 32 | 19 57 | 5 4 | 19 39 | 12 49 |
| 7 | S | 19 5 57 | 16 41 20 | 22 25 | 1 [♈] 50 | 4 59 | 15 28 | 12 48 |
| 8 | M | 19 9 53 | 17 42 28 | 22 17 | 13 47 | 4 40 | 10 41 | 12 47 |
| 9 | Tu | 19 13 50 | 18 43 37 | 22 9 | 25 52 | 4 8 | 5 26 | 12 46 |
| 10 | W | 19 17 46 | 19 44 45 | 22 0 | 8 [♈] 8 | 3 24 | 0 S 6 | 12 45 |
| 11 | Th | 19 21 43 | 20 45 53 | 21 51 | 20 39 | 2 30 | 5 45 | 12 44 |
| 12 | F | 19 25 39 | 21 47 1 | 21 42 | 3 [♈] 32 | 1 27 | 11 20 | 12 43 |
| 13 | S | 19 29 36 | 22 48 9 | 21 32 | 16 49 | 0 17 | 16 36 | 12 42 |
| 14 | S | 19 33 33 | 23 49 17 | 21 21 | 0 [♈] 34 | 0 S 56 | 21 12 | 12 41 |
| 15 | M | 19 37 29 | 24 50 24 | 21 11 | 14 49 | 2 8 | 24 42 | 12 40 |
| 16 | Tu | 19 41 26 | 25 51 31 | 21 0 | 29 31 | 3 13 | 26 41 | 12 39 |
| 17 | W | 19 45 22 | 26 52 38 | 20 48 | 14 ^w 36 | 4 7 | 26 45 | 12 38 |
| 18 | Th | 19 49 19 | 27 53 44 | 20 36 | 29 55 | 4 44 | 24 49 | 12 37 |
| 19 | F | 19 53 15 | 28 54 49 | 20 24 | 15 [♈] 15 | 5 1 | 21 4 | 12 36 |
| 20 | S | 19 57 12 | 29 55 54 | 20 11 | 0 [♈] 27 | 4 56 | 15 56 | 12 35 |
| 21 | S | 20 1 8 | 0 [♈] 56 58 | 19 58 | 15 18 | 4 31 | 9 58 | 12 34 |
| 22 | M | 20 5 5 | 1 58 1 | 19 44 | 29 44 | 3 50 | 3 37 | 12 ^D 44 |
| 23 | Tu | 20 9 2 | 2 59 2 | 19 30 | 13 [♈] 40 | 2 55 | 2 N 42 | 12 44 |
| 24 | W | 20 12 58 | 4 0 3 | 19 16 | 27 7 | 1 53 | 8 42 | 12 43 |
| 25 | Th | 20 16 55 | 5 1 3 | 19 2 | 10 [♈] 9 | 0 47 | 14 8 | 12 42 |
| 26 | F | 20 20 51 | 6 2 1 | 18 47 | 22 48 | 0 N 20 | 18 49 | 12 41 |
| 27 | S | 20 24 48 | 7 2 58 | 18 32 | 5 [♈] 11 | 1 25 | 22 34 | 12 40 |
| 28 | S | 20 28 44 | 8 3 54 | 18 16 | 17 20 | 2 24 | 25 15 | 12 39 |
| 29 | M | 20 32 41 | 9 4 49 | 18 0 | 29 21 | 3 16 | 26 43 | 12 38 |
| 30 | Tu | 20 36 37 | 10 5 43 | 17 44 | 11 [☿] 16 | 3 59 | 26 57 | 12 37 |
| 31 | W | 20 40 34 | 11 6 35 | 17 27 | 23 9 | 4 31 | 25 54 | 12 36 |

| Mars. | | Venus. | | Mercury. | | Moon's Node. |
|-------|---------|--------|---------|----------|---------|--------------|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| ° | ' | ° | ' | ° | ' | ° |
| 1 S 8 | 20 S 43 | 0 S 54 | 23 S 27 | 0 S 44 | 24 S 12 | 19 x 28 |
| 1 8 | 20 9 | 0 58 | 23 4 | 1 2 | 24 26 | 19 19 |
| 1 7 | 19 34 | 1 2 | 22 34 | 1 19 | 24 29 | 19 9 |
| 1 7 | 18 56 | 1 6 | 21 59 | 1 33 | 24 20 | 19 0 |
| 1 6 | 18 17 | 1 11 | 21 17 | 1 45 | 23 58 | 18 50 |
| 1 6 | 17 35 | 1 16 | 20 30 | 1 54 | 23 22 | 18 40 |
| 1 5 | 16 53 | 1 19 | 19 37 | 2 1 | 22 38 | 18 31 |
| 1 5 | 16 8 | 1 22 | 18 40 | 2 4 | 21 30 | 18 21 |
| 1 4 | 15 22 | 1 25 | 17 37 | 2 3 | 20 13 | 18 12 |
| 1 3 | 14 35 | 1 27 | 16 30 | 1 59 | 18 42 | 18 3 |
| 1 2 | 13 46 | 1 29 | 15 19 | 1 51 | 16 58 | 17 58 |

| ♂ | ♂ | ♂ | ♀ | ♀ | Mutual, Lunar Aspects. |
|----------|--------|-----------|-----------|---------|------------------------|
| Long. | Long. | Long. | Long. | Long. | Aspts. |
| ° | ' | ° | ' | ° | |
| 10 11 16 | 2 m 59 | 2 m 34 | 15 w 7 | 29 f 17 | |
| 10 12 13 | 8 13 | 21 16 | 23 0 w 49 | 4 ♂ ♂ | |
| 10 8 8 | 8 27 | 8 17 | 39 2 21 | ⊙ Δ ♀ | |
| 10 4 3 | 40 | 55 18 | 55 3 54 | | |
| 10 0 3 | 54 | 5 42 20 | 10 5 28 | | |
| 9 57 4 | 8 | 6 29 21 | 25 7 2 | | |
| 9 54 4 | 22 | 7 17 22 | 40 8 36 | ⊙ P ♀ | |
| 9 50 4 | 36 | 8 4 23 | 56 10 10 | | |
| 9 47 4 | 50 | 8 25 11 | 11 11 44 | | |
| 9 44 5 | 4 | 9 26 27 | 13 20 | ♂ Δ ♀ | |
| 9 41 5 | 18 | 10 26 27 | 43 14 56 | | □ |
| 9 38 5 | 32 | 11 13 28 | 58 16 32 | | * ♂ □ * |
| 9 35 5 | 47 | 12 0 m 13 | 18 9 | | * ♂ * |
| 9 32 6 | 1 | 13 48 1 | 28 19 47 | ♂ □ ♂ | * ♂ * |
| 9 29 6 | 15 | 13 35 2 | 44 21 25 | | ♂ * |
| 9 26 6 | 29 | 14 23 3 | 59 23 8 | | |
| 9 23 6 | 43 | 15 10 5 | 15 24 42 | | ♂ |
| 9 21 6 | 57 | 15 57 6 | 30 26 22 | ♂ ♂ ♀ ♂ | ♂ |
| 9 18 7 | 11 | 16 45 7 | 46 28 2 | | ♂ |
| 9 16 7 | 25 | 17 32 9 | 1 29 42 | ⊙ ♂ ♀ | |
| 9 14 7 | 39 | 18 19 10 | 16 1 m 23 | | * □ * |
| 9 12 7 | 53 | 19 7 11 | 32 3 5 | | * □ * |
| 9 10 8 | 7 | 19 54 12 | 47 4 48 | ♂ □ ♀ | * * |
| 9 8 8 | 22 | 20 42 14 | 2 6 32 | | * * |
| 9 7 8 | 36 | 21 30 15 | 17 8 16 | ♂ ♂ ♀ | □ ♂ □ * |
| 9 5 8 | 50 | 22 17 16 | 32 9 59 | | |
| 9 4 9 | 4 | 23 4 17 | 48 11 43 | ♂ Δ ♀ | Δ ♂ Δ |
| 9 3 9 | 18 | 23 51 19 | 3 13 27 | ♂ □ ♀ | Δ Δ |
| 9 2 9 | 32 | 24 38 20 | 18 15 12 | ⊙ Δ ♀ | Δ |
| 9 1 9 | 47 | 25 26 21 | 34 16 58 | ⊙ ♂ ♀ | |
| 9 0 10 | 2 | 26 14 22 | 49 18 46 | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 22 | 15 N 21 | 1 S 38 | 20 N 13 | 0 S 33 | 18 S 14 |
| 4 | 16 | 15 | 0 22 | 15 22 | 1 37 | 20 13 | 0 33 | 18 2 |
| 7 | 16 | 15 | 0 22 | 15 23 | 1 37 | 20 14 | 0 33 | 17 51 |
| 10 | 16 | 14 | 0 22 | 15 24 | 1 36 | 20 15 | 0 34 | 17 30 |
| 13 | 16 | 14 | 0 22 | 15 25 | 1 35 | 20 16 | 0 34 | 17 27 |
| 16 | 16 | 13 | 0 22 | 15 26 | 1 34 | 20 17 | 0 35 | 17 15 |
| 19 | 16 | 12 | 0 22 | 15 27 | 1 33 | 20 18 | 0 35 | 17 3 |
| 22 | 16 | 12 | 0 22 | 15 29 | 1 33 | 20 19 | 0 36 | 16 51 |
| 25 | 16 | 11 | 0 22 | 15 30 | 1 32 | 20 21 | 0 36 | 16 30 |
| 28 | 16 | 10 | 0 22 | 15 32 | 1 32 | 20 22 | 0 36 | 16 27 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ☽
Long. | | ☽
Lat. | | ☽
Declin. | | ♂
Long. | |
|--------|--------|-------------------|----|----|-----------------|-------|--------------|--------------------|------------|---------|-----------|---|--------------|---|------------|---|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | Th | 20 | 44 | 31 | 12 ^m | 7 26 | 17 S 10 | 5 Ω 1 | 4 N 51 | 23 N 44 | 12 43 | | | | | |
| 2 | F | 20 | 48 | 27 | 13 | 8 16 | 16 53 | 16 54 | 4 59 | 20 32 | 12 40 | | | | | |
| 3 | S | 20 | 52 | 24 | 14 | 9 5 | 16 36 | 28 49 | 4 54 | 16 29 | 12 40 | | | | | |
| 4 | S | 20 | 56 | 20 | 15 | 9 53 | 16 18 | 10 ^m 47 | 4 35 | 11 46 | 12 50 | | | | | |
| 5 | M | 21 | 0 | 17 | 16 | 10 39 | 16 0 | 22 50 | 4 4 | 6 35 | 12 50 | | | | | |
| 6 | Tu | 21 | 4 | 13 | 17 | 11 25 | 15 42 | 5 Ω 0 | 3 22 | 1 6 | 12 51 | | | | | |
| 7 | W | 21 | 8 | 10 | 18 | 12 10 | 15 23 | 17 19 | 2 30 | 4 S 30 | 12 52 | | | | | |
| 8 | Th | 21 | 12 | 6 | 19 | 12 53 | 15 4 | 29 51 | 1 29 | 10 2 | 12 53 | | | | | |
| 9 | F | 21 | 16 | 3 | 20 | 13 36 | 14 45 | 12 ^m 40 | 0 23 | 15 17 | 12 54 | | | | | |
| 10 | S | 21 | 20 | 0 | 21 | 14 17 | 14 26 | 25 50 | 0 S 46 | 19 59 | 12 55 | | | | | |
| 11 | S | 21 | 23 | 56 | 22 | 14 58 | 14 6 | 9 † 25 | 1 55 | 23 47 | 12 56 | | | | | |
| 12 | M | 21 | 27 | 53 | 23 | 15 37 | 13 47 | 23 26 | 2 59 | 26 17 | 12 57 | | | | | |
| 13 | Tu | 21 | 31 | 49 | 24 | 16 15 | 13 27 | 7 ^m 55 | 3 54 | 27 7 | 12 59 | | | | | |
| 14 | W | 21 | 35 | 46 | 25 | 16 52 | 13 6 | 22 48 | 4 35 | 28 3 | 13 0 | | | | | |
| 15 | Th | 21 | 39 | 42 | 26 | 17 27 | 12 46 | 7 ^m 58 | 4 57 | 23 4 | 13 1 | | | | | |
| 16 | F | 21 | 43 | 39 | 27 | 18 1 | 12 25 | 23 16 | 4 58 | 18 28 | 13 3 | | | | | |
| 17 | S | 21 | 47 | 35 | 28 | 18 33 | 12 4 | 8 × 30 | 4 38 | 12 41 | 13 4 | | | | | |
| 18 | S | 21 | 51 | 32 | 29 | 19 4 | 11 43 | 23 29 | 3 59 | 6 15 | 13 5 | | | | | |
| 19 | M | 21 | 55 | 29 | 0 × | 19 33 | 11 22 | 8 r 5 | 3 5 | 0 N 22 | 13 7 | | | | | |
| 20 | Tu | 21 | 59 | 25 | 1 | 20 0 | 11 1 | 22 12 | 2 2 | 6 46 | 13 9 | | | | | |
| 21 | W | 22 | 3 | 22 | 2 | 20 26 | 10 39 | 5 8 49 | 0 53 | 12 38 | 13 10 | | | | | |
| 22 | Th | 22 | 7 | 18 | 3 | 20 49 | 10 17 | 18 57 | 0 N 17 | 17 44 | 13 11 | | | | | |
| 23 | F | 22 | 11 | 15 | 4 | 21 11 | 9 55 | 1 □ 41 | 1 23 | 21 52 | 13 13 | | | | | |
| 24 | S | 22 | 15 | 11 | 5 | 21 30 | 9 33 | 14 5 | 2 24 | 24 54 | 13 15 | | | | | |
| 25 | S | 22 | 19 | 8 | 6 | 21 48 | 9 11 | 26 13 | 3 17 | 26 41 | 13 17 | | | | | |
| 26 | M | 22 | 23 | 4 | 7 | 22 4 | 8 49 | 8 Ω 12 | 4 0 | 27 12 | 13 19 | | | | | |
| 27 | Tu | 22 | 27 | 1 | 8 | 22 17 | 8 26 | 20 4 | 4 33 | 26 27 | 13 21 | | | | | |
| 28 | W | 22 | 30 | 58 | 9 | 22 29 | 8 4 | 1 Ω 55 | 4 54 | 24 31 | 13 23 | | | | | |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 18 2 | 13 S 30 | 18 29 | 14 S 55 | 18 46 | 16 S 20 | 17 50 |
| 4 | 1 1 | 12 39 | 1 28 | 13 38 | 1 34 | 14 18 | 17 40 |
| 7 | 0 59 | 11 48 | 1 28 | 12 19 | 1 7 | 12 7 | 17 30 |
| 10 | 0 59 | 10 56 | 1 28 | 10 57 | 0 45 | 9 48 | 17 21 |
| 13 | 0 58 | 10 2 | 1 27 | 9 32 | 0 2 | 7 28 | 17 11 |
| 16 | 0 58 | 9 8 | 1 25 | 8 5 | 0 N 40 | 5 15 | 17 1 |
| 19 | 0 57 | 8 14 | 1 23 | 6 36 | 1 33 | 3 19 | 16 52 |
| 22 | 0 56 | 7 18 | 1 20 | 5 6 | 2 10 | 1 49 | 16 42 |
| 25 | 0 54 | 6 22 | 1 16 | 3 33 | 2 52 | 0 56 | 16 32 |
| 28 | 0 52 | 5 26 | 1 12 | 2 1 | 3 23 | 0 46 | 16 23 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspects. | Lunar Aspects | | | |
|--------|-------|-------|-------|-------|-------|-------|--------------------|---------------|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 8 59 | 10 17 | 27 2 | 24 4 | 20 33 | | | | | | |
| 2 | 8 58 | 10 31 | 27 50 | 25 19 | 22 20 | ☉ ☿ | ♂ | ☿ | | | |
| 3 | 8 57 | 10 45 | 28 38 | 26 34 | 24 6 | | | | | ♂ | ♂ |
| 4 | 8 56 | 10 59 | 29 25 | 27 49 | 25 52 | | | ☿ | | | |
| 5 | 8 56 | 11 13 | 0 12 | 29 4 | 27 39 | | | | | | |
| 6 | 8 55 | 11 27 | 0 59 | 0 19 | 29 25 | | | | Δ | Δ | |
| 7 | 8 55 | 11 41 | 1 47 | 1 34 | 1 10 | | | Δ | | Δ | |
| 8 | 8 55 | 11 55 | 2 34 | 2 40 | 2 54 | ♂ ☉ ♀ | | | ♂ | Δ | Δ |
| 9 | 8 55 | 12 9 | 3 21 | 4 4 | 4 36 | | | ☿ | | ☿ | Δ |
| 10 | 8 55 | 12 23 | 4 9 | 5 19 | 6 16 | | | ☿ | | | |
| 11 | 8 55 | 12 37 | 4 56 | 6 34 | 7 58 | | | | ♂ | ☿ | ☿ |
| 12 | 8 56 | 12 51 | 5 43 | 7 49 | 9 28 | ☿ ☿ ☿ | * | | | | |
| 13 | 8 56 | 13 6 | 6 30 | 9 41 | 11 0 | ☿ ☿ ☿ | | Δ | | * | * |
| 14 | 8 57 | 13 20 | 7 17 | 10 19 | 12 28 | ☿ ☿ ☿ | | | | | |
| 15 | 8 57 | 13 34 | 8 5 | 11 34 | 13 52 | | | ☿ | Δ | ☿ | |
| 16 | 8 58 | 13 48 | 8 53 | 12 48 | 15 9 | ☿ ☿ ☿ | ☿ | | | | |
| 17 | 8 59 | 14 2 | 9 40 | 14 3 | 16 20 | | | * | ☿ | ☿ | ☿ |
| 18 | 9 0 | 14 16 | 10 27 | 15 18 | 17 24 | | | | | | |
| 19 | 9 1 | 14 31 | 11 14 | 16 33 | 18 22 | | | | | | |
| 20 | 9 2 | 14 45 | 12 1 | 17 48 | 19 12 | | | | | | |
| 21 | 9 3 | 14 59 | 12 48 | 19 3 | 19 54 | | | * | | | |
| 22 | 9 4 | 15 13 | 13 36 | 20 17 | 20 25 | ☿ ☿ ☿ | | ☿ | | ☿ | * |
| 23 | 9 6 | 15 27 | 14 23 | 21 32 | 20 46 | | | ☿ | | | |
| 24 | 9 8 | 15 41 | 15 10 | 22 46 | 20 58 | | | | ☿ | Δ | ☿ |
| 25 | 9 10 | 15 55 | 15 58 | 24 1 | 21 2 | | | | | | ☿ |
| 26 | 9 11 | 16 9 | 16 45 | 25 16 | 20 54 | | | Δ | * | | |
| 27 | 9 13 | 16 23 | 17 32 | 26 30 | 20 38 | | | | | Δ | Δ |
| 28 | 9 15 | 16 37 | 18 19 | 27 45 | 20 12 | ☉ ☿ | | | | | Δ |

MARCH XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|---|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 22 | 15 N 33 | 1 S 31 | 20 N 23 | 0 S 36 | 16 S 23 |
| 4 | 16 | 8 | 0 22 | 15 35 | 1 30 | 20 25 | 0 37 | 16 11 |
| 7 | 16 | 8 | 0 22 | 15 37 | 1 29 | 20 27 | 0 37 | 15 59 |
| 10 | 16 | 7 | 0 22 | 15 39 | 1 29 | 20 29 | 0 38 | 15 47 |
| 13 | 16 | 6 | 0 22 | 15 41 | 1 28 | 20 31 | 0 38 | 15 35 |
| 16 | 16 | 5 | 0 22 | 15 43 | 1 28 | 20 33 | 0 38 | 15 23 |
| 19 | 16 | 4 | 0 22 | 15 46 | 1 27 | 20 35 | 0 39 | 15 11 |
| 22 | 16 | 4 | 0 22 | 15 48 | 1 26 | 20 38 | 0 39 | 14 59 |
| 25 | 16 | 3 | 0 22 | 15 51 | 1 25 | 20 40 | 0 39 | 14 48 |
| 28 | 16 | 2 | 0 22 | 15 53 | 1 25 | 20 43 | 0 40 | 14 36 |
| 31 | 16 | 1 | 0 22 | 15 56 | 1 24 | 20 46 | 0 40 | 14 25 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | Th | 22 34 54 | 10 x 22 38 | 7 S 41 | 13 Ω 47 | 5 N 2 | 21 N 31 | 13 x 25 |
| 2 | F | 22 38 51 | 11 22 46 | 7 19 25 | 42 | 4 57 | 17 37 | 13 27 |
| 3 | S | 22 42 47 | 12 22 51 | 6 55 | 7 m 42 | 4 39 | 13 0 | 13 29 |
| 4 | S | 22 46 44 | 13 22 55 | 6 32 | 19 49 | 4 8 | 7 50 | 13 31 |
| 5 | M | 22 50 40 | 14 22 57 | 6 9 | 2 a 2 | 3 25 | 2 20 | 13 33 |
| 6 | Tu | 22 54 37 | 15 22 57 | 5 46 | 14 24 | 2 32 | 3 S 20 | 13 35 |
| 7 | W | 22 58 33 | 16 22 56 | 5 23 | 26 56 | 1 31 | 8 58 | 13 37 |
| 8 | Th | 23 2 30 | 17 22 53 | 4 59 | 9 m 38 | 0 25 | 14 19 | 13 39 |
| 9 | F | 23 6 27 | 18 22 48 | 4 36 | 22 35 | 0 S 44 | 19 9 | 13 41 |
| 10 | S | 23 10 23 | 19 22 42 | 4 13 | 5 f 48 | 1 53 | 23 8 | 13 44 |
| 11 | S | 23 14 20 | 20 22 33 | 3 49 | 19 19 | 2 57 | 25 58 | 13 46 |
| 12 | M | 23 18 16 | 21 22 24 | 3 25 | 3 w 12 | 3 52 | 27 17 | 13 49 |
| 13 | Tu | 23 22 13 | 22 22 12 | 3 2 | 17 25 | 4 34 | 26 51 | 13 51 |
| 14 | W | 23 26 9 | 23 21 59 | 2 38 | 1 m 58 | 5 0 | 24 36 | 13 54 |
| 15 | Th | 23 30 6 | 24 21 44 | 2 14 | 16 47 | 5 6 | 20 41 | 13 56 |
| 16 | F | 23 34 2 | 25 21 27 | 1 51 | 1 x 44 | 4 52 | 15 24 | 13 59 |
| 17 | S | 23 37 59 | 26 21 8 | 1 27 | 16 41 | 4 18 | 9 13 | 14 1 |
| 18 | S | 23 41 55 | 27 20 48 | 1 3 | 1 r 29 | 3 27 | 2 34 | 14 4 |
| 19 | M | 23 45 52 | 28 20 25 | 0 41 | 16 0 | 2 23 | 4 N 6 | 14 6 |
| 20 | Tu | 23 49 49 | 29 20 0 | 0 16 | 0 s 7 | 1 12 | 10 24 | 14 9 |
| 21 | W | 23 53 45 | 0 r 19 33 | 0 N 8 | 13 48 | 0 N 1 | 16 1 | 14 11 |
| 22 | Th | 23 57 42 | 1 19 4 | 0 31 | 27 3 | 1 12 | 20 41 | 14 14 |
| 23 | F | 0 1 38 | 2 18 33 | 0 55 | 9 Π 52 | 2 18 | 24 13 | 14 17 |
| 24 | S | 0 5 35 | 3 17 59 | 1 19 | 22 21 | 3 15 | 26 29 | 14 20 |
| 25 | S | 0 9 31 | 4 17 22 | 1 42 | 4 s 33 | 4 1 | 27 24 | 14 23 |
| 26 | M | 0 13 28 | 5 16 44 | 2 6 | 16 34 | 4 37 | 27 0 | 14 26 |
| 27 | Tu | 0 17 24 | 6 16 4 | 2 29 | 28 28 | 5 0 | 25 23 | 14 29 |
| 28 | W | 0 21 21 | 7 15 21 | 2 53 | 10 Ω 19 | 5 10 | 22 38 | 14 32 |
| 29 | Th | 0 25 18 | 8 14 35 | 3 16 | 22 13 | 5 7 | 18 59 | 14 35 |
| 30 | F | 0 29 14 | 9 13 48 | 3 40 | 4 m 11 | 4 50 | 14 29 | 14 38 |
| 31 | S | 0 33 11 | 10 12 58 | 4 8 | 16 17 | 4 21 | 9 25 | 14 41 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 8 52 | 5 8 7 | 1 8 11 | 1 8 30 | 8 N 31 | 0 8 52 | 16 8 20 |
| 4 | 0 50 | 4 11 | 1 7 | 0 N 4 | 3 42 | 1 38 | 16 11 |
| 7 | 0 49 | 3 14 | 1 1 | 1 37 | 3 34 | 2 53 | 16 1 |
| 10 | 0 47 | 2 17 | 0 56 | 3 10 | 3 10 | 4 22 | 15 52 |
| 13 | 0 46 | 1 20 | 0 50 | 4 43 | 2 32 | 5 49 | 15 42 |
| 16 | 0 44 | 0 22 | 0 43 | 6 14 | 1 48 | 7 3 | 15 33 |
| 19 | 0 43 | 0 N 34 | 0 36 | 7 45 | 1 13 | 7 57 | 15 23 |
| 22 | 0 42 | 1 31 | 0 28 | 9 14 | 0 21 | 8 30 | 15 14 |
| 25 | 0 40 | 2 28 | 0 20 | 10 41 | 0 8 18 | 8 42 | 15 4 |
| 28 | 0 39 | 3 24 | 0 13 | 12 6 | 0 54 | 8 34 | 14 55 |
| 31 | 0 37 | 4 19 | 0 5 | 13 28 | 1 23 | 8 7 | 14 45 |

| D | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual | Lunar Aspects. | | | | | | | |
|----|----------|-------|-------|-------|-------|-------|--------|----------------|---|---|---|---|---|---|---|
| M | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | ☾ | H | h | u | ♈ | ♉ | ♊ | ♋ |
| | ° / | ° / | ° / | ° / | ° / | ° / | | | | | | | | | |
| 1 | 9 11 17 | 16 50 | 19 6 | 29 0 | 19 35 | 5 | | | | | | | | | |
| 2 | 9 19 17 | 4 19 | 53 | 0 14 | 18 57 | 5 | | | | | | | | | |
| 3 | 9 21 17 | 18 20 | 40 | 1 28 | 18 10 | | | | | | | | | | |
| 4 | 9 24 17 | 32 21 | 26 | 2 43 | 17 16 | 6 | | | | | | | | | |
| 5 | 9 27 17 | 46 22 | 13 | 3 58 | 16 20 | | | | | | | | | | |
| 6 | 9 30 17 | 59 23 | 0 | 5 12 | 15 21 | 6 | | | | | | | | | |
| 7 | 9 33 18 | 12 23 | 47 | 6 26 | 14 21 | | | | | | | | | | |
| 8 | 9 36 18 | 26 24 | 34 | 7 40 | 13 22 | 7 | | | | | | | | | |
| 9 | 9 39 18 | 39 25 | 21 | 8 54 | 12 23 | | | | | | | | | | |
| 10 | 9 42 18 | 52 26 | 8 | 10 8 | 11 23 | 8 | | | | | | | | | |
| 11 | 9 45 19 | 5 26 | 55 | 11 22 | 10 35 | | | | | | | | | | |
| 12 | 9 48 19 | 19 27 | 41 | 12 36 | 9 48 | 9 | | | | | | | | | |
| 13 | 9 52 19 | 32 28 | 27 | 13 51 | 9 6 | | | | | | | | | | |
| 14 | 9 55 19 | 45 29 | 14 | 15 5 | 8 20 | | | | | | | | | | |
| 15 | 9 59 19 | 58 0 | 1 | 16 19 | 7 58 | | | | | | | | | | |
| 16 | 10 3 20 | 11 0 | 48 | 17 33 | 7 32 | | | | | | | | | | ♈ |
| 17 | 10 7 20 | 24 1 | 34 | 18 47 | 7 16 | | | | * | ☐ | | | | | |
| 18 | 10 10 20 | 37 2 | 20 | 20 1 | 7 7 | | | ♈ | | | | | ♈ | | |
| 19 | 10 14 20 | 50 3 | 6 | 21 14 | 7 5 | ♀ * ♈ | | | | | * | * | | ♈ | |
| 20 | 10 18 21 | 3 3 | 52 | 22 28 | 7 D 8 | ☉ ☌ ☌ | | | | | | | | | |
| 21 | 10 22 21 | 16 4 | 38 | 23 42 | 7 9 | | | | | ♈ | | | | | * |
| 22 | 10 26 21 | 29 5 | 25 | 24 56 | 7 21 | | | * | | | | ☐ | | | * |
| 23 | 10 31 21 | 41 6 | 11 | 26 10 | 7 37 | | | | | ♈ | | | * | | ☐ |
| 24 | 10 36 21 | 53 6 | 57 | 27 24 | 8 0 | ♈ ☌ ♈ | | | | | Δ | | * | | |
| 25 | 10 41 22 | 5 7 | 44 | 28 38 | 8 27 | | | ☐ | | | | | ☐ | | Δ |
| 26 | 10 45 22 | 17 8 | 30 | 29 51 | 8 59 | | | | | * | | | | | |
| 27 | 10 50 22 | 29 9 | 16 | 1 5 | 9 35 | | | | | | | | | | ☐ |
| 28 | 10 55 22 | 41 10 | 3 | 2 18 | 10 15 | | | Δ | | ☐ | * | | Δ | | |
| 29 | 11 0 22 | 53 10 | 49 | 3 31 | 10 58 | h ☐ ♈ | | | | | | | ♈ | | |
| 30 | 11 5 23 | 5 11 | 35 | 4 45 | 11 45 | | | | | | | | | Δ | |
| 31 | 11 10 23 | 17 12 | 21 | 5 59 | 12 35 | | | | | Δ | ☐ | | | | ♈ |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 2 | 0 S 22 | 15 N 57 | 1 S 24 | 20 N 47 | 0 S 40 | 14 S 21 |
| 4 | 16 | 1 | 0 22 | 16 0 | 1 23 | 20 49 | 0 40 | 14 10 |
| 7 | 16 | 0 | 0 21 | 16 2 | 1 23 | 20 52 | 0 41 | 13 59 |
| 10 | 15 | 59 | 0 21 | 16 5 | 1 22 | 20 55 | 0 42 | 13 48 |
| 13 | 15 | 58 | 0 21 | 16 8 | 1 22 | 20 58 | 0 42 | 13 38 |
| 16 | 15 | 58 | 0 21 | 16 11 | 1 21 | 21 1 | 0 43 | 13 28 |
| 19 | 15 | 57 | 0 21 | 16 14 | 1 20 | 21 4 | 0 44 | 13 18 |
| 22 | 15 | 56 | 0 21 | 16 17 | 1 19 | 21 6 | 0 45 | 13 8 |
| 25 | 15 | 55 | 0 21 | 16 20 | 1 19 | 21 9 | 0 45 | 12 58 |
| 28 | 15 | 55 | 0 21 | 16 23 | 1 18 | 21 12 | 0 46 | 12 50 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 0 37 7 | 11 r 12 6 | 4 N 26 | 28 m 33 | 3 N 39 | 3 N 55 | 14 r 43 |
| 2 | M | 0 41 4 | 12 11 12 | 4 49 | 11 n 0 | 2 46 | 1 S 49 | 14 46 |
| 3 | Tu | 0 45 0 | 13 10 16 | 5 12 | 23 38 | 1 44 | 7 35 | 14 49 |
| 4 | W | 0 48 57 | 14 9 18 | 5 35 | 6 m 28 | 0 35 | 13 8 | 14 52 |
| 5 | Th | 0 52 53 | 15 8 18 | 5 58 | 19 31 | 0 S 36 | 18 12 | 14 55 |
| 6 | F | 0 56 50 | 16 7 16 | 6 21 | 2 f 46 | 1 47 | 22 28 | 14 59 |
| 7 | S | 1 0 47 | 17 6 12 | 6 43 | 16 14 | 2 53 | 25 36 | 15 1 |
| 8 | S | 1 4 43 | 18 5 7 | 7 6 | 29 55 | 3 50 | 27 17 | 15 4 |
| 9 | M | 1 8 40 | 19 4 0 | 7 28 | 13 v 50 | 4 35 | 27 18 | 15 6 |
| 10 | Tu | 1 12 36 | 20 2 51 | 7 51 | 27 57 | 5 4 | 25 33 | 15 11 |
| 11 | W | 1 16 33 | 21 1 41 | 8 13 | 12 m 16 | 5 14 | 22 10 | 15 15 |
| 12 | Th | 1 20 29 | 22 0 29 | 8 35 | 26 42 | 5 5 | 17 24 | 15 19 |
| 13 | F | 1 24 26 | 22 59 15 | 8 57 | 11 x 13 | 4 37 | 11 38 | 15 21 |
| 14 | S | 1 28 22 | 23 57 59 | 9 18 | 25 42 | 3 51 | 5 15 | 15 24 |
| 15 | S | 1 32 19 | 24 56 41 | 9 40 | 10 r 5 | 2 51 | 1 N 23 | 15 27 |
| 16 | M | 1 36 16 | 25 55 22 | 10 1 | 24 15 | 1 41 | 7 51 | 15 31 |
| 17 | Tu | 1 40 12 | 26 54 0 | 10 23 | 8 x 8 | 0 26 | 13 49 | 15 34 |
| 18 | W | 1 44 9 | 27 52 37 | 10 44 | 21 41 | 0 N 49 | 18 59 | 15 37 |
| 19 | Th | 1 48 5 | 28 51 12 | 11 5 | 4 □ 53 | 1 59 | 23 5 | 15 41 |
| 20 | F | 1 52 2 | 29 49 44 | 11 25 | 17 43 | 3 1 | 25 54 | 15 44 |
| 21 | S | 1 55 58 | 0 x 48 15 | 11 46 | 0 ∞ 14 | 3 53 | 27 21 | 15 47 |
| 22 | S | 1 59 55 | 1 46 43 | 12 6 | 12 30 | 4 33 | 27 24 | 15 50 |
| 23 | M | 2 3 51 | 2 45 9 | 12 26 | 24 33 | 5 0 | 26 9 | 15 54 |
| 24 | Tu | 2 7 48 | 3 43 33 | 12 46 | 6 Ω 29 | 5 14 | 23 44 | 15 57 |
| 25 | W | 2 11 45 | 4 41 55 | 13 6 | 18 22 | 5 16 | 20 15 | 16 1 |
| 26 | Th | 2 15 41 | 5 40 15 | 13 25 | 0 m 17 | 5 2 | 16 5 | 16 4 |
| 27 | F | 2 19 38 | 6 38 32 | 13 45 | 12 17 | 4 36 | 11 12 | 16 7 |
| 28 | S | 2 23 34 | 7 36 48 | 14 4 | 24 27 | 3 57 | 5 50 | 16 10 |
| 29 | S | 2 27 31 | 8 35 2 | 14 23 | 6 n 51 | 3 6 | 0 8 | 16 14 |
| 30 | M | 2 31 27 | 9 33 14 | 14 41 | 19 29 | 2 6 | 5 S 41 | 16 18 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 0 8 37 | 4 N 38 | 0 8 2 | 13 N 54 | 1 8 31 | 7 S 55 | 14 8 42 |
| 4 | 0 35 | 5 32 | 0 N 6 | 15 18 | 1 51 | 7 7 | 14 32 |
| 7 | 0 33 | 6 27 | 0 16 | 16 28 | 2 13 | 6 5 | 14 23 |
| 10 | 0 32 | 7 20 | 0 24 | 17 39 | 2 26 | 4 49 | 14 13 |
| 13 | 0 30 | 8 13 | 0 33 | 18 46 | 2 34 | 3 21 | 14 4 |
| 16 | 0 28 | 9 5 | 0 41 | 19 49 | 2 38 | 1 41 | 13 54 |
| 19 | 0 26 | 9 56 | 0 50 | 20 47 | 2 36 | 0 N 9 | 13 46 |
| 22 | 0 24 | 10 46 | 0 59 | 21 40 | 2 31 | 2 8 | 13 35 |
| 25 | 0 23 | 11 35 | 1 6 | 22 29 | 2 20 | 4 16 | 13 26 |
| 28 | 0 20 | 12 22 | 1 14 | 23 11 | 2 4 | 6 32 | 13 16 |

| D
M | h | | ♄ | | ♅ | | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | | |
| 1 | 11 15 | 23 29 | 13 7 | 7 8 | 13 29 | ♂ * h | | | ☉ * h | ♂ | | | | ♂ | | | |
| 2 | 11 20 | 23 41 | 13 53 | 8 25 | 14 26 | ♂ * h | | | ♂ * h | ♂ | | Δ | | ♂ | | | |
| 3 | 11 25 | 23 53 | 14 38 | 9 38 | 15 26 | | | | | | | | Δ | | | | |
| 4 | 11 31 | 24 5 | 15 24 | 10 51 | 16 29 | | | | | | | | | | ♂ | | |
| 6 | 11 30 | 24 17 | 16 10 | 12 4 | 17 34 | h √ ♀ | | | | ♂ | | | □ | | | | Δ |
| 6 | 11 42 | 24 28 | 16 56 | 13 17 | 18 41 | ☉ P ♀ | | | | | | | | | | | |
| 7 | 11 48 | 24 39 | 17 41 | 14 30 | 19 50 | ♀ ♂ h | | | | | | | | | | | |
| 8 | 11 53 | 24 50 | 18 27 | 15 43 | 21 1 | | | | | | | | | | | | □ |
| 9 | 11 59 | 25 1 | 19 13 | 16 56 | 22 15 | | | | | | | | | | Δ | | |
| 10 | 12 4 | 25 12 | 19 59 | 18 9 | 23 31 | ☉ ♂ ♂ | | | | | | | | | | | * |
| 11 | 12 10 | 25 23 | 20 44 | 19 22 | 24 49 | | | | | | | | | | | | |
| 12 | 12 16 | 25 34 | 21 29 | 20 35 | 25 9 | | | | | | | | | | | | □ |
| 13 | 12 22 | 25 45 | 22 13 | 21 47 | 27 31 | | | | | | | | | | | | |
| 14 | 12 28 | 25 56 | 22 58 | 22 59 | 28 55 | | | | | | | | | | * | | ♂ |
| 15 | 12 34 | 26 7 | 23 43 | 24 12 | 0 21 | ♂ ∠ h | | | | | | | | | | | |
| 16 | 12 40 | 26 18 | 24 29 | 25 25 | 1 49 | | | | | ♂ | | | | * | ♂ | | |
| 17 | 12 46 | 26 28 | 25 14 | 26 37 | 3 19 | ☉ * ♄ | | | | | | | | | | | |
| 18 | 12 52 | 26 38 | 26 0 | 27 50 | 4 50 | | | | | ♂ | | | □ | | | | |
| 19 | 12 59 | 26 48 | 26 46 | 29 3 | 6 24 | ♄ * ♂ | | | | | | | | | ♂ | | * |
| 20 | 13 5 | 26 58 | 27 31 | 0 16 | 7 58 | | | | | | | ♂ | | | | | |
| 21 | 13 12 | 27 8 | 28 16 | 1 28 | 9 35 | h ∠ ♂ | | | | * | | | | | | | |
| 22 | 13 18 | 27 18 | 29 0 | 2 40 | 11 14 | | | | | | | * | | | | | □ |
| 23 | 13 25 | 27 28 | 29 45 | 3 52 | 12 54 | ♂ * h | | | | | | | | | | | |
| 24 | 13 31 | 27 37 | 0 30 | 5 4 | 14 35 | | | | | □ | | | | | | | |
| 25 | 13 38 | 27 46 | 1 14 | 6 16 | 16 18 | ☉ P ♄ | | | | | | □ | π | | | | Δ |
| 26 | 13 44 | 27 55 | 1 59 | 7 28 | 18 4 | | | | | Δ | | | | ♂ | Δ | | |
| 27 | 13 51 | 28 4 | 2 44 | 8 40 | 19 51 | | | | | | | Δ | □ | | | | □ |
| 28 | 13 58 | 28 13 | 3 29 | 9 52 | 21 40 | | | | | | | | | | | | |
| 29 | 14 5 | 28 22 | 4 14 | 11 4 | 23 30 | | | | | | | | | | | | Δ |
| 30 | 14 12 | 28 30 | 4 58 | 12 16 | 25 21 | | | | | | | | Δ | | | | |

MAY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Decln. | Lat. | Decln. | Lat. | Decln. |
| 1 | 15 | 52 | 0 S 21 | 16 N 26 | 1 S 18 | 21 N 15 | 0 S 47 | 12 S 41 |
| 4 | 15 | 52 | 0 21 | 16 29 | 1 18 | 21 18 | 0 47 | 12 33 |
| 7 | 15 | 51 | 0 21 | 16 32 | 1 17 | 21 21 | 0 48 | 12 25 |
| 10 | 15 | 51 | 0 21 | 16 35 | 1 17 | 21 23 | 0 49 | 12 18 |
| 13 | 15 | 50 | 0 21 | 16 38 | 1 17 | 21 26 | 0 49 | 12 11 |
| 16 | 15 | 49 | 0 21 | 16 41 | 1 17 | 21 29 | 0 50 | 12 5 |
| 19 | 15 | 49 | 0 21 | 16 44 | 1 17 | 21 31 | 0 51 | 11 59 |
| 22 | 15 | 48 | 0 21 | 16 47 | 1 17 | 21 34 | 0 52 | 11 53 |
| 25 | 15 | 48 | 0 21 | 16 50 | 1 16 | 21 37 | 0 52 | 11 48 |
| 28 | 15 | 47 | 0 20 | 16 52 | 1 16 | 21 39 | 0 53 | 11 44 |
| 31 | 15 | 47 | 0 20 | 16 55 | 1 16 | 21 41 | 0 54 | 11 40 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Decln | ♂
Long. | ♂
Lat. | ♂
Decln | ♂
Long. |
|--------|--------|-------------------|------------|------------|------------|-----------|------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 2 35 24 | 10 31 24 | 14 N 59 | 2 m 23 | 0 N 58 | 11 S 25 | 16 3 22 |
| 2 | W | 2 39 20 | 11 29 32 | 15 18 15 | 34 | 0 S 15 | 16 45 | 16 25 |
| 3 | Th | 2 43 17 | 12 27 38 | 15 35 29 | 1 | 1 28 21 | 24 | 16 23 |
| 4 | F | 2 47 14 | 13 25 43 | 15 53 12 | 42 | 2 38 24 | 57 | 16 31 |
| 5 | S | 2 51 10 | 14 23 47 | 16 10 26 | 35 | 3 39 27 | 4 | 16 34 |
| | | | 5 21 49 | 16 27 10 | 37 | 4 28 27 | 29 | 16 38 |
| | | | 6 19 50 | 16 44 24 | 46 | 5 1 26 | 8 | 16 41 |
| | | | 7 17 49 | 17 1 8 | 59 | 5 16 23 | 6 | 16 45 |
| | | | 8 15 47 | 17 17 23 | 14 | 5 12 18 | 41 | 16 48 |
| | | | 9 13 44 | 17 33 7 | 26 | 4 48 13 | 14 | 16 52 |
| | | | 10 11 40 | 17 49 21 | 35 | 4 7 7 | 7 | 16 55 |
| | | | 11 9 34 | 18 4 5 | 38 | 3 12 0 | 42 | 16 59 |
| | | | 12 7 27 | 18 19 19 | 32 | 2 6 5 | N 43 | 17 3 |
| | | | 13 5 19 | 18 34 3 | 15 | 0 59 11 | 47 | 17 6 |
| | | | 14 3 9 | 18 48 16 | 45 | 0 N 17 | 12 | 17 10 |
| 16 | W | 3 34 32 | 25 0 58 | 19 2 29 | 59 | 1 33 21 | 41 | 17 13 |
| 17 | Th | 3 38 29 | 25 58 45 | 19 16 12 | 58 | 2 39 25 | 0 | 17 17 |
| 18 | F | 3 42 25 | 26 56 31 | 19 29 25 | 41 | 3 35 26 | 58 | 17 20 |
| 19 | S | 3 46 22 | 27 54 16 | 19 43 6 | 9 | 4 20 27 | 32 | 17 24 |
| 20 | S | 3 50 18 | 28 51 59 | 19 56 20 | 23 | 4 52 26 | 43 | 17 27 |
| 21 | M | 3 54 15 | 29 49 41 | 20 8 2 | 27 | 5 10 24 | 40 | 17 31 |
| 22 | Tu | 3 58 12 | 0 47 21 | 20 20 14 | 23 | 5 15 21 | 33 | 17 34 |
| 23 | W | 4 2 8 | 1 44 59 | 20 32 26 | 16 | 5 6 17 | 34 | 17 38 |
| 24 | Th | 4 6 5 | 2 42 30 | 20 44 8 | 10 | 4 44 12 | 54 | 17 41 |
| 25 | F | 4 10 1 | 3 40 12 | 20 54 20 | 11 | 4 10 7 | 43 | 17 45 |
| 26 | S | 4 13 58 | 4 37 46 | 21 5 2 | 22 | 3 24 2 | 11 | 17 48 |
| 27 | S | 4 17 54 | 5 35 18 | 21 14 14 | 48 | 2 28 3 | S 34 | 17 52 |
| 28 | M | 4 21 51 | 6 32 50 | 21 25 27 | 33 | 1 23 9 | 19 | 17 55 |
| 29 | Tu | 4 25 47 | 7 30 20 | 21 36 10 | 38 | 0 12 1 | 50 | 17 59 |
| 30 | W | 4 29 44 | 8 27 49 | 21 44 24 | 6 | 1 8 2 | 19 | 18 1 |
| 31 | Th | 4 33 41 | 9 25 16 | 21 53 7 | 54 | 2 13 23 | 50 | 18 4 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 S 18 | 13 N 9 | 1 N 23 | 23 N 48 | 1 S 45 | 8 N 53 | 13 8 7 |
| 4 | 0 18 | 13 55 | 1 30 | 24 19 | 1 21 | 11 19 | 12 57 |
| 7 | 0 16 | 14 39 | 1 36 | 24 44 | 0 53 | 13 46 | 12 48 |
| 10 | 0 14 | 15 21 | 1 43 | 25 3 | 0 23 | 16 10 | 12 38 |
| 13 | 0 12 | 16 3 | 1 49 | 25 16 | 0 N 7 | 18 28 | 12 29 |
| 16 | 0 9 | 16 43 | 1 53 | 25 22 | 0 40 | 20 32 | 12 19 |
| 19 | 0 6 | 17 21 | 1 58 | 25 22 | 1 8 | 22 19 | 12 10 |
| 22 | 0 5 | 17 58 | 2 3 | 25 15 | 1 33 | 23 43 | 12 0 |
| 25 | 0 3 | 18 33 | 2 6 | 23 3 | 1 52 | 24 44 | 11 51 |
| 28 | 0 1 | 19 7 | 2 9 | 24 44 | 2 5 | 25 21 | 11 41 |
| 31 | 0 0 | 19 39 | 2 10 | 24 19 | 2 9 | 25 37 | 11 32 |

| D
M | h | | u | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|-------|--------|----|----|----|------------------|----------------|----|---|---|----|--|
| | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☽ | h | | u | ♂ | ♀ | ♂ | | |
| 1 | 14 | 19 | 28 | 39 | 5 | 42 | 13 | 27 | 27 | 16 | | | | Δ | ♂ | ♂ | |
| 2 | 14 | 26 | 28 | 48 | 6 | 27 | 14 | 39 | 29 | 12 | ♀♂h | ♂ | ♂ | | | | |
| 3 | 14 | 33 | 28 | 57 | 7 | 12 | 15 | 50 | 18 | 9 | ♀♂h | | | □ | | | |
| 4 | 14 | 40 | 29 | 6 | 7 | 56 | 17 | 1 | 3 | 8 | | | ♂ | | | ♂ | |
| 5 | 14 | 47 | 29 | 14 | 8 | 40 | 18 | 13 | 5 | 9 | | | | * | | | |
| 6 | 14 | 54 | 29 | 22 | 9 | 24 | 19 | 24 | 7 | 11 | ☉P☽ | Δ | Δ | | Δ | Δ | |
| 7 | 15 | 2 | 29 | 29 | 10 | 8 | 20 | 35 | 9 | 15 | ☉♂☽ | | | | | | |
| 8 | 15 | 9 | 29 | 37 | 10 | 52 | 21 | 46 | 11 | 21 | ♀♂♂ | | | Δ | □ | □ | |
| 9 | 15 | 16 | 29 | 45 | 11 | 36 | 22 | 57 | 13 | 27 | | □ | □ | ♂ | | Δ | |
| 10 | 15 | 23 | 29 | 52 | 12 | 19 | 24 | 9 | 15 | 35 | | | | | * | | |
| 11 | 15 | 30 | 29 | 59 | 13 | 3 | 25 | 20 | 17 | 45 | | | | | | □* | |
| 12 | 15 | 37 | 0 | 6 | 13 | 47 | 26 | 31 | 19 | 54 | | | | | | | |
| 13 | 15 | 45 | 0 | 13 | 14 | 31 | 27 | 41 | 22 | 6 | | | | | | | |
| 14 | 15 | 52 | 0 | 20 | 15 | 15 | 28 | 52 | 24 | 16 | | | | | * | | |
| 15 | 15 | 59 | 0 | 27 | 15 | 59 | 0 | 5 | 2 | 26 | | | | | | | |
| 16 | 16 | 6 | 0 | 34 | 16 | 43 | 1 | 13 | 28 | 39 | | | | | | ♂ | |
| 17 | 16 | 13 | 0 | 41 | 17 | 27 | 2 | 24 | 0 | 49 | | | | | | | |
| 18 | 16 | 21 | 0 | 47 | 18 | 11 | 3 | 35 | 2 | 58 | | | | | | | |
| 19 | 16 | 29 | 0 | 53 | 18 | 54 | 4 | 45 | 5 | 6 | | | | | | ♂ | |
| 20 | 16 | 37 | 0 | 59 | 19 | 38 | 5 | 55 | 7 | 17 | | | | | | | |
| 21 | 16 | 45 | 1 | 5 | 20 | 22 | 7 | 5 | 9 | 24 | | * | | | | | |
| 22 | 16 | 53 | 1 | 10 | 21 | 5 | 8 | 15 | 11 | 28 | ☉□♂ | | □* | | | * | |
| 23 | 17 | 1 | 1 | 15 | 21 | 48 | 9 | 25 | 13 | 31 | | | | ♂ | □ | | |
| 24 | 17 | 8 | 1 | 20 | 22 | 31 | 10 | 35 | 15 | 32 | | □ | | | | * | |
| 25 | 17 | 16 | 1 | 25 | 23 | 14 | 11 | 45 | 17 | 30 | ♀♂h | | Δ | □ | Δ | | |
| 26 | 17 | 24 | 1 | 30 | 23 | 57 | 12 | 55 | 19 | 26 | | Δ | | | | | |
| 27 | 17 | 31 | 1 | 35 | 24 | 40 | 14 | 4 | 21 | 20 | | | | Δ | | □ | |
| 28 | 17 | 39 | 1 | 40 | 25 | 23 | 15 | 13 | 23 | 12 | | | | | Δ | Δ | |
| 29 | 17 | 47 | 1 | 45 | 26 | 6 | 16 | 23 | 25 | 1 | ♂□♀ | | | | | Δ | |
| 30 | 17 | 54 | 1 | 49 | 26 | 49 | 17 | 32 | 26 | 47 | ♀*☽ | ♂ | ♂ | | ♂ | | |
| 31 | 18 | 2 | 1 | 53 | 27 | 32 | 18 | 41 | 28 | 50 | | ♂ | | | □ | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 20 | 16 N 56 | 1 S 16 | 21 N 42 | 0 S 54 | 11 S 39 |
| 4 | 15 | 48 | 0 20 | 16 59 | 1 16 | 21 44 | 0 55 | 11 36 |
| 7 | 15 | 47 | 0 20 | 17 1 | 1 15 | 21 47 | 0 56 | 11 33 |
| 10 | 15 | 47 | 0 20 | 17 4 | 1 15 | 21 49 | 0 56 | 11 31 |
| 13 | 15 | 47 | 0 20 | 17 7 | 1 15 | 21 51 | 0 57 | 11 30 |
| 16 | 15 | 46 | 0 20 | 17 9 | 1 14 | 21 53 | 0 58 | 11 29 |
| 19 | 15 | 46 | 0 20 | 17 11 | 1 14 | 21 55 | 0 59 | 11 29 |
| 22 | 15 | 46 | 0 20 | 17 14 | 1 13 | 21 56 | 1 0 | 11 30 |
| 25 | 15 | 46 | 0 20 | 17 16 | 1 13 | 21 58 | 1 1 | 11 31 |
| 28 | 15 | 46 | 0 20 | 17 18 | 1 13 | 22 0 | 1 1 | 11 33 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 4 37 37 | 10 ♄ 22 43 | 22 N 1 | 22 ♄ 1 | 3 S 18 | 26 S 31 | 18 5 |
| 2 | S | 4 41 34 | 11 20 9 | 22 10 | 6 ♄ 23 | 4 12 | 27 30 | 18 11 |
| 3 | S | 4 45 30 | 12 17 34 | 22 17 | 20 52 | 4 50 | 26 37 | 18 15 |
| 4 | M | 4 49 27 | 13 14 58 | 22 25 | 5 ♄ 25 | 5 10 | 23 56 | 18 18 |
| 5 | Tu | 4 53 23 | 14 12 22 | 22 31 | 19 54 | 5 9 | 19 45 | 18 22 |
| 6 | W | 4 57 20 | 15 9 45 | 22 38 | 4 ♄ 15 | 4 50 | 14 27 | 18 25 |
| 7 | Th | 5 1 16 | 16 7 8 | 22 44 | 18 25 | 4 13 | 8 27 | 18 28 |
| 8 | F | 5 5 13 | 17 4 30 | 22 50 | 2 ♄ 23 | 3 21 | 2 8 | 18 31 |
| 9 | S | 5 9 10 | 18 1 51 | 22 55 | 16 7 | 2 19 | 4 N 13 | 18 34 |
| 10 | S | 5 13 6 | 18 59 12 | 23 0 | 29 38 | 1 9 | 10 16 | 18 37 |
| 11 | M | 5 17 3 | 19 56 33 | 23 5 | 12 56 | 0 N 3 | 15 46 | 18 40 |
| 12 | Tu | 5 20 59 | 20 53 53 | 23 9 | 26 1 | 1 13 | 20 28 | 18 43 |
| 13 | W | 5 24 56 | 21 51 12 | 23 13 | 8 ♄ 55 | 2 19 | 24 5 | 18 46 |
| 14 | Th | 5 28 52 | 22 48 31 | 23 16 | 21 36 | 3 16 | 26 27 | 18 49 |
| 15 | F | 5 32 49 | 23 45 50 | 23 19 | 4 ♄ 6 | 4 3 | 27 27 | 18 52 |
| 16 | S | 5 36 46 | 24 43 8 | 23 21 | 16 25 | 4 38 | 27 3 | 18 55 |
| 17 | S | 5 40 42 | 25 40 25 | 23 23 | 28 34 | 5 0 | 25 21 | 18 58 |
| 18 | M | 5 44 39 | 26 37 41 | 23 25 | 10 ♄ 84 | 5 8 | 22 32 | 19 1 |
| 19 | Tu | 5 48 35 | 27 34 57 | 23 26 | 22 28 | 5 2 | 18 48 | 19 4 |
| 20 | W | 5 52 32 | 28 32 13 | 23 27 | 4 ♄ 20 | 4 41 | 14 20 | 19 7 |
| 21 | Th | 5 56 28 | 29 29 27 | 23 28 | 16 13 | 4 14 | 9 20 | 19 10 |
| 22 | F | 6 0 25 | 0 ♄ 26 41 | 23 28 | 28 11 | 3 32 | 3 58 | 19 13 |
| 23 | S | 6 4 21 | 1 23 54 | 23 27 | 10 ♄ 21 | 2 40 | 1 S 39 | 19 16 |
| 24 | S | 6 8 18 | 2 21 7 | 23 26 | 22 45 | 1 40 | 7 19 | 19 19 |
| 25 | M | 6 12 15 | 3 18 19 | 23 25 | 5 ♄ 30 | 0 33 | 12 51 | 19 21 |
| 26 | Tu | 6 16 11 | 4 15 31 | 23 23 | 18 39 | 0 S 38 | 17 59 | 19 24 |
| 27 | W | 6 20 8 | 5 12 42 | 23 21 | 2 ♄ 14 | 1 48 | 22 24 | 19 27 |
| 28 | Th | 6 24 4 | 6 9 53 | 23 19 | 16 16 | 2 55 | 25 39 | 19 29 |
| 29 | F | 6 28 1 | 7 7 4 | 23 16 | 0 ♄ 42 | 3 51 | 27 19 | 19 32 |
| 30 | S | 6 31 57 | 8 4 15 | 23 13 | 15 27 | 4 34 | 27 6 | 19 34 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Decln. | Lat. | Decln. | Lat. | Decln. | |
| 1 | 0 N 1 | 19 N 49 | 2 N 11 | 24 N 10 | 2 N 9 | 25 N 38 | 11 29 |
| 4 | 0 | 20 19 | 2 12 | 23 37 | 2 4 | 25 28 | 11 20 |
| 7 | 0 5 | 20 47 | 2 12 | 23 0 | 1 55 | 25 3 | 11 10 |
| 10 | 0 7 | 21 13 | 2 10 | 22 17 | 1 36 | 24 26 | 11 1 |
| 13 | 0 8 | 21 37 | 2 8 | 21 29 | 1 10 | 23 39 | 10 51 |
| 16 | 0 10 | 21 59 | 2 5 | 20 36 | 0 42 | 22 47 | 10 42 |
| 19 | 0 12 | 22 20 | 2 1 | 19 39 | 0 6 | 21 50 | 10 32 |
| 22 | 0 14 | 22 38 | 1 55 | 18 38 | 0 S 25 | 20 53 | 10 23 |
| 25 | 0 16 | 22 55 | 1 51 | 17 34 | 1 20 | 19 57 | 10 13 |
| 28 | 0 18 | 23 10 | 1 42 | 16 26 | 2 7 | 19 6 | 10 4 |

| D
M | h | | ♄ | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|---|
| | Long | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| 1 | 18 10 | 1 57 | 28 15 | 19 50 | 0 9 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 2 | 18 17 | 2 1 | 28 58 | 20 59 | 1 47 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 3 | 18 25 | 2 4 | 29 41 | 22 8 | 2 21 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 4 | 18 32 | 2 7 | 0 23 | 23 17 | 4 55 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 5 | 18 40 | 2 10 | 1 6 | 24 25 | 6 22 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 6 | 18 48 | 2 13 | 1 49 | 25 33 | 7 47 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 7 | 18 56 | 2 16 | 2 31 | 26 41 | 9 10 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 8 | 19 4 | 2 19 | 3 14 | 27 49 | 10 30 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 9 | 19 12 | 2 21 | 3 56 | 28 57 | 11 46 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 10 | 19 20 | 2 23 | 4 38 | 0 2 | 13 0 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 11 | 19 28 | 2 26 | 5 20 | 1 13 | 14 11 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 12 | 19 36 | 2 28 | 6 2 | 2 21 | 15 19 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 13 | 19 44 | 2 30 | 6 44 | 3 29 | 16 23 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 14 | 19 51 | 2 31 | 7 26 | 4 36 | 17 23 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 15 | 19 59 | 2 32 | 8 8 | 5 43 | 18 21 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 16 | 20 7 | 2 33 | 8 51 | 6 50 | 19 15 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 17 | 20 15 | 2 34 | 9 33 | 7 57 | 20 5 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 18 | 20 22 | 2 35 | 10 15 | 9 4 | 20 52 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 19 | 20 30 | 2 36 | 10 57 | 10 10 | 21 35 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 20 | 20 37 | 2 36 | 11 39 | 11 16 | 22 14 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 21 | 20 45 | 2 37 | 12 21 | 12 22 | 22 49 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 22 | 20 53 | 2 37 | 13 2 | 13 29 | 23 20 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 23 | 21 1 | 2 37 | 13 44 | 14 35 | 23 48 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 24 | 21 9 | 2 36 | 14 26 | 15 41 | 24 10 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 25 | 21 17 | 2 35 | 15 7 | 16 46 | 24 26 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 26 | 21 24 | 2 34 | 15 49 | 17 51 | 24 38 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 27 | 21 32 | 2 33 | 16 31 | 18 56 | 24 48 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 28 | 21 40 | 2 32 | 17 13 | 20 1 | 24 51 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 29 | 21 47 | 2 31 | 17 54 | 21 6 | 24 50 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |
| 30 | 21 55 | 2 30 | 18 35 | 22 11 | 24 46 | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ ♄ ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ | ♈ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 15 | 45 | 0 S 20 | 17 N 20 | 1 S 13 | 22 N 1 | 1 S 3 | 11 S 35 |
| 4 | 15 | 45 | 0 20 | 17 22 | 1 13 | 22 3 | 1 4 | 11 39 |
| 7 | 15 | 45 | 0 20 | 17 24 | 1 13 | 22 4 | 1 5 | 11 42 |
| 10 | 15 | 45 | 0 20 | 17 26 | 1 13 | 22 5 | 1 5 | 11 46 |
| 13 | 15 | 45 | 0 20 | 17 28 | 1 13 | 22 6 | 1 6 | 11 51 |
| 16 | 15 | 46 | 0 20 | 17 29 | 1 13 | 22 8 | 1 7 | 11 57 |
| 19 | 15 | 46 | 0 20 | 17 31 | 1 13 | 22 9 | 1 8 | 12 2 |
| 22 | 15 | 46 | 0 20 | 17 32 | 1 13 | 22 9 | 1 8 | 12 9 |
| 25 | 15 | 46 | 0 20 | 17 33 | 1 13 | 22 10 | 1 9 | 12 16 |
| 28 | 15 | 47 | 0 20 | 17 35 | 1 13 | 22 11 | 1 10 | 12 23 |
| 31 | 15 | 47 | 0 20 | 17 36 | 1 13 | 22 12 | 1 11 | 12 30 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 6 35 54 | 9 ⁵⁵ 1 25 | 23 N 9 | 0 ^m 22 | 4 S 59 | 24 S 57 | 19 ⁰ 37 |
| 2 | M | 6 39 50 | 9 58 36 | 23 5 | 15 19 | 5 42 | 21 5 | 19 40 |
| 3 | Tu | 6 43 47 | 10 55 47 | 23 1 | 0 ^m 10 | 4 48 | 15 54 | 19 42 |
| 4 | W | 6 47 44 | 11 52 58 | 22 56 | 14 46 | 4 13 | 9 54 | 19 45 |
| 5 | Th | 6 51 40 | 12 50 9 | 22 50 | 29 3 | 3 23 | 3 29 | 19 47 |
| 6 | F | 6 55 37 | 13 47 21 | 22 45 | 13 ^r 0 | 2 22 | 2 N 57 | 19 50 |
| 7 | S | 6 59 33 | 14 44 33 | 22 39 | 26 37 | 1 15 | 9 7 | 19 52 |
| 8 | S | 7 3 30 | 15 41 46 | 22 32 | 9 ⁰ 55 | 0 5 | 14 44 | 19 54 |
| 9 | M | 7 7 26 | 16 38 59 | 22 25 | 22 56 | 1 N 4 | 19 33 | 19 56 |
| 10 | Tu | 7 11 23 | 17 36 12 | 22 18 | 5 ^h 43 | 2 8 | 23 23 | 19 58 |
| 11 | W | 7 15 19 | 18 33 26 | 22 10 | 18 18 | 3 5 | 26 1 | 20 0 |
| 12 | Th | 7 19 16 | 19 30 40 | 22 2 | 0 ⁵⁵ 43 | 3 52 | 27 20 | 20 2 |
| 13 | F | 7 23 13 | 20 27 55 | 21 54 | 12 17 | 4 28 | 27 16 | 20 4 |
| 14 | S | 7 27 9 | 21 25 10 | 21 45 | 25 8 | 4 51 | 25 53 | 20 6 |
| 15 | S | 7 31 6 | 22 22 26 | 21 36 | 7 ^h 9 | 5 0 | 23 20 | 20 8 |
| 16 | M | 7 35 23 | 23 19 42 | 21 27 | 19 5 | 4 57 | 19 49 | 20 10 |
| 17 | Tu | 7 38 59 | 24 16 58 | 21 17 | 0 ^m 56 | 4 40 | 15 31 | 20 12 |
| 18 | W | 7 42 55 | 25 14 15 | 21 6 | 12 47 | 4 12 | 10 39 | 20 14 |
| 19 | Th | 7 46 52 | 26 11 31 | 20 56 | 24 38 | 3 32 | 5 23 | 20 16 |
| 20 | F | 7 50 48 | 27 8 48 | 20 45 | 6 ^h 35 | 2 43 | 0 S 7 | 20 18 |
| 21 | S | 7 54 45 | 28 6 6 | 20 34 | 18 42 | 1 46 | 5 42 | 20 20 |
| 22 | S | 7 58 42 | 29 3 23 | 20 22 | 1 ^m 3 | 0 43 | 11 11 | 20 22 |
| 23 | M | 8 2 38 | 0 ^h 0 41 | 20 10 | 13 45 | 0 S 24 | 16 22 | 20 23 |
| 24 | Tu | 8 6 35 | 0 58 0 | 19 58 | 26 51 | 1 32 | 20 58 | 20 25 |
| 25 | W | 8 10 31 | 1 55 18 | 19 45 | 10 ^h 25 | 2 37 | 24 37 | 20 26 |
| 26 | Th | 8 14 28 | 2 52 38 | 19 32 | 24 28 | 3 35 | 26 55 | 20 28 |
| 27 | F | 8 18 24 | 3 49 58 | 19 19 | 9 ^h 0 | 4 21 | 27 29 | 20 29 |
| 28 | S | 8 22 21 | 4 47 18 | 19 5 | 23 56 | 4 50 | 26 6 | 20 31 |
| 29 | S | 8 26 18 | 5 44 39 | 18 51 | 9 ^m 7 | 5 0 | 22 49 | 20 32 |
| 30 | M | 8 30 14 | 6 42 1 | 18 37 | 24 22 | 4 49 | 17 57 | 20 34 |
| 31 | Tu | 8 34 11 | 7 39 25 | 18 22 | 9 ^h 31 | 4 17 | 11 58 | 20 35 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 20 | 23 N 23 | 1 N 32 | 15 N 15 | 2 S 56 | 18 N 23 | 9 53 |
| 4 | 0 20 | 23 34 | 1 22 | 14 1 | 3 39 | 17 49 | 9 43 |
| 7 | 0 24 | 23 43 | 1 12 | 12 45 | 4 16 | 17 27 | 9 34 |
| 10 | 0 26 | 23 50 | 0 59 | 11 28 | 4 42 | 17 17 | 9 24 |
| 13 | 0 28 | 23 55 | 0 46 | 10 8 | 4 47 | 17 20 | 9 15 |
| 16 | 0 30 | 23 58 | 0 32 | | | | 9 5 |
| 19 | 0 32 | 24 0 | 0 16 | | | | 8 56 |
| 22 | 0 34 | 23 59 | 0 0 | | | | 8 46 |
| 25 | 0 35 | 23 57 | 0 8 6 | | | | 8 37 |
| 28 | 0 36 | 23 53 | 0 38 | | | | 8 27 |
| 31 | 0 38 | 23 47 | 0 59 | | | | 8 18 |

| D
M | h | | ♄ | | ♃ | | ♀ | | ♂ | | Mutual Lunar Aspects. | |
|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ |
| 1 | 22 3 | 2 28 19 | 16 23 | 15 24 | 23 36 | | | | | | | |
| 2 | 22 10 | 2 26 19 | 57 24 | 19 24 | 21 8 | ♄ ♄ | ☐ | Δ | ♂ | ♂ | | |
| 3 | 22 18 | 2 24 20 | 38 25 | 23 24 | 8 | | | | ♂ | ♂ | | |
| 4 | 22 25 | 2 22 21 | 19 26 | 26 23 | 41 | | Δ | * | ☐ | ♂ | | |
| 5 | 22 32 | 2 19 22 | 0 27 | 29 23 | 14 | | | ☐ | | | | Δ |
| 6 | 22 40 | 2 16 22 | 41 28 | 33 22 | 48 | ♂ ♂ h | ☐ | | | | | |
| 7 | 22 48 | 2 13 23 | 22 29 | 36 22 | 13 | | | | | | | |
| 8 | 22 55 | 2 10 24 | 3 0 | 38 21 | 38 | | * | | | | | |
| 9 | 23 3 | 2 7 24 | 44 1 | 40 21 | 1 | ♀ ♀ ♄ | ♂ | | | | | |
| 10 | 23 10 | 2 3 25 | 25 2 | 42 20 | 22 | | | | | | | |
| 11 | 23 17 | 2 0 26 | 6 3 | 44 19 | 43 | ♄ * ♀ | | | | | | |
| 12 | 23 25 | 1 57 26 | 47 4 | 45 19 | 4 | ☉ * ♄ | | | | | | |
| 13 | 23 32 | 1 53 27 | 27 6 | 46 18 | 25 | | | | | | | |
| 14 | 23 39 | 1 49 28 | 8 6 | 47 17 | 48 | | ♂ | * | | | | |
| 15 | 23 46 | 1 45 28 | 48 7 | 47 17 | 13 | | | | | | | |
| 16 | 23 53 | 1 40 29 | 28 8 | 48 16 | 41 | | | ☐ | | | | |
| 17 | 24 0 | 1 36 0 | 9 9 | 48 16 | 12 | | | | | | | |
| 18 | 24 7 | 1 30 0 | 49 10 | 48 15 | 46 | | | | | | | |
| 19 | 24 15 | 1 25 1 | 30 11 | 47 15 | 24 | ♄ Δ ♂ | * | Δ | | | | |
| 20 | 24 22 | 1 20 2 | 10 12 | 45 15 | 9 | | | | | | | |
| 21 | 24 29 | 1 15 2 | 50 13 | 43 14 | 59 | | | | | | | |
| 22 | 24 36 | 1 9 3 | 30 14 | 41 14 | 53 | ♀ * ♀ | ☐ | | | | | |
| 23 | 24 43 | 1 8 4 | 10 15 | 38 14 | 51 | | | | | | | |
| 24 | 24 50 | 0 57 4 | 50 16 | 35 14 | D 57 | | Δ | | | | | |
| 25 | 24 57 | 0 52 5 | 30 17 | 32 15 | 7 | ♄ ♄ | | | | | | |
| 26 | 25 3 | 0 45 6 | 10 18 | 28 15 | 24 | | | | | | | |
| 27 | 25 10 | 0 40 6 | 50 19 | 24 15 | 48 | | | | | | | |
| 28 | 25 17 | 0 34 7 | 30 20 | 20 16 | 17 | ♀ Δ ♄ | | Δ | | | | |
| 29 | 25 24 | 0 28 8 | 10 21 | 15 16 | 54 | | ♂ | | | | | |
| 30 | 25 30 | 0 21 8 | 50 22 | 9 17 | 37 | | | ☐ | Δ | ♂ | | |
| 31 | 25 37 | 0 14 9 | 20 23 | 2 18 | 24 | | | | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 8 20 | 17 N 36 | 1 S 13 | 22 N 12 | 1 S 11 | 12 S 33 |
| 4 | 15 | 48 | 0 20 | 17 37 | 1 13 | 22 12 | 1 11 | 12 41 |
| 7 | 15 | 49 | 0 20 | 17 38 | 1 13 | 22 13 | 1 12 | 13 49 |
| 10 | 15 | 49 | 0 20 | 17 38 | 1 13 | 22 13 | 1 12 | 12 57 |
| 13 | 15 | 50 | 0 20 | 17 39 | 1 13 | 22 14 | 1 13 | 13 5 |
| 16 | 15 | 50 | 0 20 | 17 39 | 1 13 | 22 14 | 1 13 | 13 14 |
| 19 | 15 | 51 | 0 20 | 17 40 | 1 13 | 22 14 | 1 14 | 13 22 |
| 22 | 15 | 51 | 0 20 | 17 40 | 1 13 | 22 15 | 1 14 | 13 31 |
| 25 | 15 | 52 | 0 20 | 17 40 | 1 13 | 22 15 | 1 14 | 13 39 |
| 28 | 15 | 53 | 0 21 | 17 40 | 1 13 | 22 15 | 1 14 | 13 47 |
| 31 | 15 | 53 | 0 21 | 17 40 | 1 13 | 22 15 | 1 15 | 13 55 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 8 38 7 | 8 2 36 48 | 18 N 7 | 24 x 25 | 3 S 28 | 5 S 25 | 20 x 36 |
| 2 | Th | 8 42 4 | 9 34 14 | 17 52 | 8 r 55 | 2 27 | 1 N 17 | 20 37 |
| 3 | F | 8 46 0 | 10 31 40 | 17 37 | 23 0 | 1 19 | 7 44 | 20 38 |
| 4 | S | 8 49 57 | 11 29 8 | 17 21 | 6 x 39 | 0 7 | 13 38 | 20 39 |
| 5 | S | 8 53 54 | 12 26 37 | 17 5 | 19 53 | 1 N 2 | 18 44 | 20 40 |
| 6 | M | 8 57 50 | 13 24 7 | 16 49 | 2 48 | 2 7 | 22 49 | 20 41 |
| 7 | Tu | 9 1 47 | 14 21 39 | 16 32 | 15 25 | 3 4 | 25 42 | 20 42 |
| 8 | W | 9 5 43 | 15 19 12 | 16 15 | 27 49 | 3 51 | 27 17 | 20 43 |
| 9 | Th | 9 9 40 | 16 16 46 | 15 58 | 10 2 | 4 26 | 27 30 | 20 44 |
| 10 | F | 9 13 36 | 17 14 22 | 15 41 | 22 7 | 4 49 | 26 24 | 20 45 |
| 11 | S | 9 17 33 | 18 11 59 | 15 23 | 4 7 | 4 59 | 24 5 | 20 46 |
| 12 | S | 9 21 30 | 19 9 37 | 15 5 | 16 2 | 4 56 | 20 45 | 20 47 |
| 13 | M | 9 25 26 | 20 7 17 | 14 47 | 27 54 | 4 40 | 16 36 | 20 48 |
| 14 | Tu | 9 29 23 | 21 4 58 | 14 29 | 9 m 45 | 4 12 | 11 49 | 20 49 |
| 15 | W | 9 33 19 | 22 2 40 | 14 10 | 21 36 | 3 33 | 6 36 | 20 50 |
| 16 | Th | 9 37 16 | 23 0 23 | 13 52 | 3 2 | 2 45 | 1 8 | 20 51 |
| 17 | F | 9 41 12 | 23 58 7 | 13 33 | 15 28 | 1 48 | 4 S 26 | 20 51 |
| 18 | S | 9 45 9 | 24 55 52 | 13 13 | 27 36 | 0 46 | 9 55 | 20 51 |
| 19 | S | 9 49 5 | 25 53 39 | 12 54 | 9 m 57 | 0 S 19 | 15 7 | 20 52 |
| 20 | M | 9 53 2 | 26 51 27 | 12 34 | 22 36 | 1 26 | 19 49 | 20 52 |
| 21 | Tu | 9 56 59 | 27 49 15 | 12 14 | 5 f 38 | 2 29 | 23 43 | 20 52 |
| 22 | W | 10 0 55 | 28 47 5 | 11 54 | 19 5 | 3 27 | 26 27 | 20 53 |
| 23 | Th | 10 4 52 | 29 44 56 | 11 34 | 3 w 2 | 4 14 | 27 40 | 20 53 |
| 24 | F | 10 8 48 | 0 m 42 49 | 11 14 | 17 28 | 4 48 | 27 4 | 20 53 |
| 25 | S | 10 12 45 | 1 40 42 | 10 53 | 2 m 19 | 5 3 | 24 34 | 20 53 |
| 26 | S | 10 16 41 | 2 38 38 | 10 32 | 17 29 | 4 57 | 20 19 | 20 53 |
| 27 | M | 10 20 38 | 3 36 34 | 10 12 | 2 x 48 | 4 30 | 14 41 | 20 53 |
| 28 | Tu | 10 24 34 | 4 34 32 | 9 50 | 18 5 | 3 44 | 8 9 | 20 52 |
| 29 | W | 10 28 31 | 5 32 32 | 9 29 | 3 r 9 | 2 43 | 1 15 | 20 52 |
| 30 | Th | 10 32 27 | 6 30 34 | 9 8 | 17 51 | 1 32 | 5 N 35 | 20 52 |
| 31 | F | 10 36 24 | 7 28 37 | 8 46 | 2 x 6 | 0 17 | 11 57 | 20 52 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 38 | 23 N 45 | 1 S 5 | 1 N 25 | 1 S 45 | 20 N 21 | 8 15 |
| 4 | 0 40 | 23 36 | 1 29 | 0 3 | 1 3 | 20 37 | 8 5 |
| 7 | 0 43 | 22 27 | 1 50 | 1 S 17 | 0 6 | 20 36 | 7 56 |
| 10 | 0 45 | 23 15 | 2 14 | 2 37 | 0 N 23 | 20 15 | 7 46 |
| 13 | 0 48 | 23 2 | 2 40 | 3 54 | 1 0 | 19 30 | 7 37 |
| 16 | 0 49 | 22 47 | 3 7 | 5 9 | 1 19 | 18 20 | 7 27 |
| 19 | 0 51 | 22 31 | 3 34 | 6 22 | 1 39 | 16 49 | 7 18 |
| 22 | 0 53 | 22 13 | 4 5 | 7 30 | 1 44 | 15 0 | 7 8 |
| 25 | 0 54 | 21 54 | 4 32 | 8 35 | 1 45 | 12 58 | 6 59 |
| 28 | 0 56 | 21 34 | 5 2 | 9 35 | 1 48 | 10 46 | 6 49 |
| 31 | 0 58 | 21 12 | 5 32 | 10 30 | 1 32 | 8 29 | 6 40 |

| D
M | h | ♃ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♃ | ♂ | ♀ | ♀ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 25 43 | 0 8 | 10 10 | 23 55 | 19 17 | | | * | □ | | | ♂ | Δ |
| 2 | 25 49 | 0 1 | 10 24 | 48 20 | 16 | ☿ * ♀ | Δ | | | | □ | | |
| 3 | 25 55 | 29 54 | 11 29 | 25 39 | 21 22 | ♀ □ h | | | * | | * | | □ |
| 4 | 26 1 | 29 47 | 12 8 | 26 30 | 22 34 | ☉ ∠ ♀ | □ | | | * | * | | |
| 5 | 26 7 | 29 40 | 12 48 | 27 20 | 23 50 | | | ♂ | | | | | * |
| 6 | 26 13 | 29 33 | 13 28 | 28 10 | 25 11 | ☉ ∠ ♂ | | | | □ | | Δ | |
| 7 | 26 20 | 29 26 | 14 7 | 28 59 | 26 39 | ♀ ∠ h | * | | | ♂ | Δ | | |
| 8 | 26 26 | 29 19 | 14 46 | 29 48 | 28 10 | | | | ♂ | Δ | | ♂ | □ |
| 9 | 26 32 | 29 11 | 15 25 | 0 35 | 29 46 | | | | | | | ♂ | |
| 10 | 26 38 | 29 3 | 16 4 | 1 22 | 1 26 | ♀ * ♀ | | * | | | | | |
| 11 | 26 44 | 28 56 | 16 43 | 2 7 | 3 10 | | | | | | | * | ♂ |
| 12 | 26 50 | 28 48 | 17 22 | 2 53 | 4 51 | | ♂ | □ | | | | | |
| 13 | 26 56 | 28 40 | 18 1 | 3 37 | 6 47 | | | | * | ♂ | | | |
| 14 | 27 2 | 28 32 | 18 40 | 4 21 | 8 41 | ☉ □ h | | | | | | | |
| 15 | 27 8 | 28 25 | 19 19 | 5 4 | 10 35 | | | Δ | □ | | * | | |
| 16 | 27 14 | 28 18 | 19 58 | 5 46 | 12 32 | ☿ □ ♀ | | | | | | ♂ | |
| 17 | 27 19 | 28 10 | 20 37 | 6 25 | 14 31 | ☿ * ♂ | | | | | □ | | * |
| 18 | 27 24 | 28 2 | 16 7 | 5 16 | 30 | ☉ P ♃ | * | | Δ | Δ | | | |
| 19 | 27 29 | 27 54 | 21 54 | 7 44 | 18 30 | | | | | | | | |
| 20 | 27 34 | 27 46 | 22 33 | 8 21 | 20 30 | ♀ □ h | □ | ♂ | | □ | Δ | | □ |
| 21 | 27 39 | 27 38 | 23 12 | 8 56 | 22 30 | ☉ ♂ ♃ | | | | | | * | |
| 22 | 27 45 | 27 30 | 23 51 | 9 31 | 24 31 | | | | | | | | Δ |
| 23 | 27 50 | 27 22 | 24 30 | 10 5 | 26 30 | ♀ ♂ ♃ | Δ | | ♂ | * | | | ♂ |
| 24 | 27 55 | 27 14 | 25 9 | 10 37 | 28 31 | ♀ * h | | Δ | | | | □ | |
| 25 | 28 0 | 27 6 | 25 47 | 11 8 | 0 30 | | | | | | ♂ | | |
| 26 | 28 5 | 26 58 | 25 25 | 11 37 | 2 27 | ☉ ♂ ♀ | | ♂ | □ | | | Δ | |
| 27 | 28 9 | 26 51 | 27 3 | 12 5 | 4 24 | | | | * | Δ | ♂ | | ♂ |
| 28 | 28 14 | 26 43 | 27 42 | 12 31 | 6 20 | | | | * | | | | |
| 29 | 28 18 | 26 36 | 28 20 | 12 55 | 8 16 | h ∠ ♂ | | | | □ | Δ | | |
| 30 | 28 23 | 26 28 | 28 59 | 13 18 | 10 9 | ☉ P ♀ | | | | | | ♂ | |
| 31 | 28 27 | 26 20 | 29 37 | 13 39 | 12 2 | | Δ | | * | * | □ | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 21 | 17 N 40 | 1 S 13 | 22 N 15 | 1 S 15 | 13 S 53 |
| 4 | 15 | 54 | 0 21 | 17 40 | 1 13 | 22 15 | 1 15 | 14 0 |
| 7 | 15 | 54 | 0 21 | 17 39 | 1 14 | 22 15 | 1 15 | 14 13 |
| 10 | 15 | 55 | 0 21 | 17 39 | 1 14 | 22 15 | 1 15 | 14 20 |
| 13 | 15 | 56 | 0 21 | 17 38 | 1 14 | 22 15 | 1 14 | 14 27 |
| 16 | 15 | 56 | 0 21 | 17 37 | 1 14 | 22 15 | 1 14 | 14 33 |
| 19 | 15 | 57 | 0 21 | 17 36 | 1 14 | 22 14 | 1 14 | 14 38 |
| 22 | 15 | 58 | 0 21 | 17 35 | 1 14 | 22 14 | 1 14 | 14 43 |
| 25 | 15 | 59 | 0 22 | 17 34 | 1 14 | 22 14 | 1 13 | 14 48 |
| 28 | 16 | 0 | 0 22 | 17 33 | 1 14 | 22 14 | 1 13 | 14 52 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|-----------------------|--------------|--------------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 10 | 40 | 20 | 8 ^m 26 43 | 8 N 25 | 15 8 53 | 0 N 56 | 17 N 30 | 20 52 |
| 2 | S | 10 | 44 | 17 | 9 24 50 | 8 3 | 29 13 | 2 4 22 | 1 20 52 | 20 52 |
| 3 | M | 10 | 48 | 14 | 10 22 59 | 7 41 | 12 11 9 | 3 4 25 | 18 20 52 | 20 52 |
| 4 | Tu | 10 | 52 | 10 | 11 21 10 | 7 19 | 24 45 | 3 53 27 | 14 20 51 | 20 51 |
| 5 | W | 10 | 56 | 7 | 12 19 23 | 6 57 | 7 ⁵⁵ 4 | 4 30 27 | 46 20 51 | 20 51 |
| 6 | Th | 11 | 0 | 3 | 13 17 39 | 6 34 | 19 12 | 4 54 26 | 56 20 50 | 20 50 |
| 7 | F | 11 | 4 | 0 | 14 15 56 | 6 12 | 1 12 11 | 5 5 24 | 53 20 50 | 20 50 |
| 8 | S | 11 | 7 | 56 | 15 14 15 | 5 49 | 13 5 | 5 3 21 | 45 20 49 | 20 49 |
| 9 | S | 11 | 11 | 53 | 16 12 37 | 5 27 | 24 57 | 4 48 17 | 44 20 49 | 20 49 |
| 10 | M | 11 | 15 | 49 | 17 11 0 | 5 4 | 6 ^m 48 | 4 20 13 | 3 20 48 | 20 48 |
| 11 | Tu | 11 | 19 | 46 | 18 9 25 | 4 41 | 18 40 | 3 41 7 | 52 20 48 | 20 48 |
| 12 | W | 11 | 23 | 42 | 19 7 52 | 4 18 | 0 ³⁶ 36 | 2 52 2 | 23 20 47 | 20 47 |
| 13 | Th | 11 | 27 | 39 | 20 6 21 | 3 55 | 12 36 | 1 55 3 S | 13 20 47 | 20 47 |
| 14 | F | 11 | 31 | 36 | 21 4 51 | 3 32 | 24 43 | 0 52 8 | 47 20 45 | 20 45 |
| 15 | S | 11 | 35 | 32 | 22 3 24 | 3 9 | 6 ^m 59 | 0 S 15 | 14 20 44 | 20 44 |
| 16 | S | 11 | 39 | 29 | 23 1 57 | 2 46 | 19 26 | 1 21 18 | 55 20 44 | 20 44 |
| 17 | M | 11 | 43 | 25 | 24 0 33 | 2 23 | 2 ^f 9 | 2 26 22 | 59 20 42 | 20 42 |
| 18 | Tu | 11 | 47 | 22 | 24 59 10 | 2 0 | 15 11 | 3 24 26 | 1 20 41 | 20 41 |
| 19 | W | 11 | 51 | 18 | 25 57 49 | 1 36 | 28 34 | 4 13 27 | 40 20 40 | 20 40 |
| 20 | Th | 11 | 55 | 15 | 26 56 30 | 1 13 | 12 ^w 22 | 4 49 27 | 41 20 39 | 20 39 |
| 21 | F | 11 | 59 | 11 | 27 55 12 | 0 50 | 26 35 | 5 8 25 | 54 20 38 | 20 38 |
| 22 | S | 12 | 3 | 8 | 28 53 56 | 0 26 | 11 ^m 11 | 5 9 22 | 23 20 37 | 20 37 |
| 23 | S | 12 | 7 | 5 | 29 52 42 | 0 3 | 26 5 | 4 49 17 | 22 20 36 | 20 36 |
| 24 | M | 12 | 11 | 1 | 0 ³⁶ 51 30 | 0 S 21 | 11 ^x 11 | 4 9 11 | 13 20 35 | 20 35 |
| 25 | Tu | 12 | 14 | 58 | 1 50 19 | 0 44 | 26 19 | 3 11 4 | 23 20 33 | 20 33 |
| 26 | W | 12 | 18 | 54 | 2 49 11 | 1 7 | 11 ^r 19 | 2 0 2 N | 38 20 33 | 20 33 |
| 27 | Th | 12 | 22 | 51 | 3 48 4 | 1 31 | 26 2 | 0 43 9 | 24 20 30 | 20 30 |
| 28 | F | 12 | 26 | 47 | 4 47 0 | 1 54 | 10 8 23 | 0 N 36 | 15 20 29 | 20 29 |
| 29 | S | 12 | 30 | 44 | 5 45 58 | 2 18 | 24 18 | 1 50 20 | 38 20 27 | 20 27 |
| 30 | S | 12 | 34 | 40 | 6 44 58 | 2 41 | 7 ¹¹ 45 | 2 55 24 | 30 20 25 | 20 25 |

SEPTEMBER XXX DAYS

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 58 | 21 N 5 | 5 8 42 | 10 S 46 | 1 N 28 | 7 N 42 | 6 8 36 |
| 4 | 1 0 | 20 41 | 6 12 | 11 32 | 1 14 | 5 22 | 6 27 |
| 7 | 1 2 | 20 18 | 6 41 | 12 9 | 0 58 | 3 1 | 6 17 |
| 10 | 1 3 | 19 51 | 7 7 | 12 38 | 0 40 | 0 42 | 6 8 |
| 13 | 1 5 | 19 24 | 7 33 | 12 56 | 0 18 | 1 S 35 | 5 58 |
| 16 | 1 6 | 18 56 | 7 54 | 13 3 | 0 S 4 | 3 48 | 5 49 |
| 19 | 1 8 | 18 27 | 8 12 | 12 57 | 0 26 | 5 57 | 5 39 |
| 22 | 1 10 | 17 57 | 8 23 | 12 38 | 0 49 | 8 1 | 5 30 |
| 25 | 1 12 | 17 27 | 8 27 | 12 6 | 1 11 | 10 0 | 5 20 |
| 28 | 1 14 | 16 55 | 8 24 | 11 21 | 1 34 | 11 52 | 5 11 |

| D
M | ♈ | | ♉ | | ♊ | | ♋ | | ♌ | |
|--------|-------|----|-------|----|-------|----|-------|-----|-------|-----|
| | Long. | | Long. | | Long. | | Long. | | Long. | |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 28 | 31 | 26 | 12 | 0 | 15 | 13 | 58 | 13 | 53 |
| 2 | 28 | 35 | 26 | 5 | 0 | 53 | 14 | 16 | 15 | 43 |
| 3 | 28 | 39 | 25 | 57 | 1 | 31 | 14 | 31 | 17 | 33 |
| 4 | 28 | 43 | 25 | 50 | 2 | 9 | 14 | 45 | 19 | 21 |
| 5 | 28 | 47 | 25 | 43 | 2 | 47 | 14 | 57 | 21 | 7 |
| 6 | 28 | 51 | 25 | 36 | 3 | 25 | 15 | 6 | 22 | 53 |
| 7 | 28 | 55 | 25 | 29 | 4 | 3 | 15 | 13 | 24 | 37 |
| 8 | 28 | 59 | 25 | 21 | 4 | 41 | 15 | 18 | 26 | 20 |
| 9 | 29 | 3 | 25 | 14 | 5 | 10 | 15 | 21 | 28 | 3 |
| 10 | 29 | 6 | 25 | 8 | 5 | 57 | 15 | 13 | 29 | 43 |
| 11 | 29 | 9 | 25 | 1 | 6 | 34 | 15 | 18 | 1 | 23 |
| 12 | 29 | 12 | 24 | 54 | 7 | 11 | 15 | 15 | 3 | 2 |
| 13 | 29 | 15 | 24 | 48 | 7 | 48 | 15 | 10 | 4 | 39 |
| 14 | 29 | 18 | 24 | 41 | 8 | 26 | 15 | 1 | 6 | 15 |
| 15 | 29 | 21 | 24 | 35 | 9 | 3 | 14 | 50 | 7 | 51 |
| 16 | 29 | 24 | 24 | 29 | 9 | 40 | 14 | 36 | 9 | 26 |
| 17 | 29 | 27 | 24 | 23 | 10 | 18 | 14 | 20 | 11 | 0 |
| 18 | 29 | 30 | 24 | 17 | 10 | 55 | 14 | 1 | 12 | 32 |
| 19 | 29 | 32 | 24 | 12 | 11 | 32 | 13 | 41 | 14 | 3 |
| 20 | 29 | 35 | 24 | 6 | 12 | 10 | 13 | 19 | 15 | 84 |
| 21 | 29 | 37 | 24 | 1 | 12 | 47 | 12 | 54 | 17 | 3 |
| 22 | 29 | 40 | 23 | 56 | 13 | 24 | 12 | 26 | 18 | 31 |
| 23 | 29 | 42 | 23 | 51 | 14 | 1 | 11 | 57 | 19 | 59 |
| 24 | 29 | 44 | 23 | 46 | 14 | 38 | 11 | 27 | 21 | 25 |
| 25 | 29 | 46 | 23 | 41 | 15 | 15 | 10 | 64 | 22 | 51 |
| 26 | 29 | 48 | 23 | 36 | 15 | 52 | 10 | ... | ... | ... |
| 27 | 29 | 49 | 23 | 32 | 16 | 28 | ... | ... | ... | ... |
| 28 | 29 | 51 | 23 | 28 | 17 | 4 | ... | ... | ... | ... |
| 29 | 29 | 52 | 23 | 24 | 17 | 41 | ... | ... | ... | ... |
| 30 | 29 | 54 | 23 | 21 | 18 | 18 | ... | ... | ... | ... |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 22 | 17 N 32 | 1 S 15 | 22 N 14 | 1 S 13 | 14 S 56 |
| 4 | 16 | 2 | 0 22 | 17 31 | 1 15 | 22 14 | 1 12 | 14 5 |
| 7 | 16 | 3 | 0 22 | 17 29 | 1 15 | 22 14 | 1 11 | 15 1 |
| 10 | 16 | 4 | 0 22 | 17 28 | 1 15 | 22 14 | 1 11 | 15 3 |
| 13 | 16 | 5 | 0 22 | 17 26 | 1 15 | 22 13 | 1 11 | 15 4 |
| 16 | 16 | 5 | 0 22 | 17 24 | 1 16 | 22 13 | 1 11 | 15 4 |
| 19 | 16 | 6 | 0 22 | 17 23 | 1 16 | 22 13 | 1 11 | 15 4 |
| 22 | 16 | 7 | 0 22 | 17 21 | 1 16 | 22 13 | 1 10 | 15 5 |
| 25 | 16 | 8 | 0 22 | 17 19 | 1 16 | 22 13 | 1 10 | 15 5 |
| 28 | 16 | 9 | 0 22 | 17 17 | 1 16 | 22 13 | 1 10 | 15 5 |
| 31 | 16 | 9 | 0 22 | 17 15 | 1 16 | 22 13 | 1 9 | 14 56 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 12 | 38 | 37 | 7 44 | 0 | 3 S 4 | 20 N 47 | 3 N 49 | 26 N 57 |
| 2 | Tu | 12 | 42 | 34 | 8 43 | 4 | 3 28 | 3 26 | 4 31 | 27 56 |
| 3 | W | 12 | 46 | 30 | 9 42 | 11 | 3 51 | 15 47 | 4 59 | 27 28 |
| 4 | Th | 12 | 50 | 27 | 10 41 | 20 | 4 14 | 27 55 | 5 13 | 25 42 |
| 5 | F | 12 | 54 | 23 | 11 40 | 32 | 4 37 | 9 52 | 5 13 | 22 48 |
| 6 | S | 12 | 58 | 20 | 12 39 | 46 | 5 0 | 21 45 | 5 0 | 18 59 |
| 7 | S | 13 | 2 | 16 | 13 39 | 2 | 5 23 | 3 35 | 4 33 | 14 26 |
| 8 | M | 13 | 6 | 13 | 14 38 | 20 | 5 46 | 15 28 | 3 55 | 9 21 |
| 9 | Tu | 13 | 10 | 9 | 15 37 | 41 | 6 9 | 27 24 | 3 7 | 3 53 |
| 10 | W | 13 | 14 | 6 | 16 37 | 4 | 6 32 | 9 27 | 2 10 | 1 S 46 |
| 11 | Th | 13 | 18 | 3 | 17 36 | 28 | 6 55 | 21 38 | 1 6 | 7 25 |
| 12 | F | 13 | 21 | 59 | 18 35 | 55 | 7 18 | 3 59 | 0 S 2 | 12 53 |
| 13 | S | 13 | 25 | 56 | 19 35 | 24 | 7 40 | 16 30 | 1 10 | 17 55 |
| 14 | S | 13 | 29 | 52 | 20 34 | 55 | 8 3 | 29 14 | 2 17 | 22 14 |
| 15 | M | 13 | 33 | 49 | 21 34 | 27 | 8 25 | 12 11 | 3 17 | 25 32 |
| 16 | Tu | 13 | 37 | 45 | 22 34 | 1 | 8 47 | 25 23 | 4 9 | 27 31 |
| 17 | W | 13 | 41 | 42 | 23 33 | 38 | 9 9 | 8 51 | 4 48 | 27 57 |
| 18 | Th | 13 | 45 | 38 | 24 33 | 15 | 9 31 | 22 36 | 5 11 | 26 40 |
| 19 | F | 13 | 49 | 35 | 25 32 | 55 | 9 53 | 6 38 | 5 17 | 23 44 |
| 20 | S | 13 | 53 | 32 | 26 32 | 36 | 10 15 | 20 57 | 5 3 | 19 15 |
| 21 | S | 13 | 57 | 28 | 27 32 | 19 | 10 36 | 5 29 | 4 30 | 13 41 |
| 22 | M | 14 | 1 | 25 | 28 32 | 4 | 10 58 | 20 9 | 3 39 | 7 15 |
| 23 | Tu | 14 | 5 | 21 | 29 31 | 50 | 11 19 | 4 53 | 2 33 | 0 24 |
| 24 | W | 14 | 9 | 18 | 0 31 | 39 | 11 40 | 19 34 | 1 18 | 6 N 26 |
| 25 | Th | 14 | 13 | 14 | 1 31 | 29 | 12 1 | 4 4 | 0 N 2 | 12 55 |
| 26 | F | 14 | 17 | 11 | 2 31 | 21 | 12 22 | 18 18 | 1 20 | 18 35 |
| 27 | S | 14 | 21 | 7 | 3 31 | 15 | 12 42 | 2 11 | 2 32 | 23 6 |
| 28 | S | 14 | 25 | 4 | 4 31 | 11 | 13 2 | 15 41 | 3 33 | 26 13 |
| 29 | M | 14 | 29 | 1 | 5 31 | 10 | 13 22 | 28 47 | 4 20 | 27 48 |
| 30 | Tu | 14 | 32 | 57 | 6 31 | 10 | 13 42 | 11 31 | 4 54 | 27 50 |
| 31 | W | 14 | 36 | 54 | 7 31 | 12 | 14 2 | 23 56 | 5 13 | 26 28 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 16 | 16 N 23 | 8 S 11 | 10 S 26 | 1 S 52 | 13 S 37 | 5 S 1 |
| 4 | 1 18 | 15 50 | 7 51 | 9 24 | 2 15 | 15 14 | 4 51 |
| 7 | 1 19 | 15 17 | 7 24 | 8 18 | 2 33 | 16 42 | 4 42 |
| 10 | 1 20 | 14 42 | 6 50 | 7 11 | 2 49 | 17 59 | 4 32 |
| 13 | 1 22 | 14 8 | 6 13 | 6 7 | 3 1 | 19 4 | 4 23 |
| 16 | 1 25 | 13 33 | 5 31 | 5 9 | 3 2 | 19 53 | 4 13 |
| 19 | 1 27 | 12 57 | 4 49 | 4 17 | 3 8 | 20 23 | 4 4 |
| 22 | 1 28 | 12 21 | 4 4 | 3 35 | 3 2 | 20 30 | 3 54 |
| 25 | 1 30 | 11 45 | 3 26 | 3 1 | 2 43 | 20 6 | 3 44 |
| 28 | 1 32 | 11 9 | 2 46 | 2 37 | 2 5 | 19 7 | 3 34 |
| 31 | 1 34 | 10 32 | 2 8 | 2 23 | 1 21 | 17 28 | 3 24 |

| D
M | h | | ♄ | | ♅ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ♄ | ♅ | ♀ |
| 1 | 29 56 | 23 17 | 18 55 | 7 21 | 0 57 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 2 | 29 57 | 23 13 | 19 31 | 6 45 | 2 14 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 3 | 29 59 | 23 10 | 20 7 | 6 8 | 3 30 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 4 | 29 59 | 23 7 | 20 43 | 5 32 | 4 45 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 5 | 0 0 | 23 4 | 21 19 | 4 57 | 5 58 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 6 | 0 1 | 23 1 | 21 55 | 4 22 | 7 9 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 7 | 0 1 | 22 59 | 22 32 | 3 48 | 8 17 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 8 | 0 2 | 22 56 | 23 8 | 3 16 | 9 24 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 9 | 0 2 | 22 54 | 23 44 | 2 46 | 10 29 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 10 | 0 3 | 22 52 | 24 21 | 2 18 | 11 32 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 11 | 0 3 | 22 51 | 24 57 | 1 52 | 12 32 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 12 | 0 3 | 22 50 | 25 33 | 1 27 | 13 29 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 13 | 0 4 | 22 49 | 26 9 | 1 4 | 14 23 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 14 | 0 4 | 22 46 | 26 45 | 0 43 | 15 14 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 15 | 0 4 | 22 47 | 27 20 | 0 26 | 16 2 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 16 | 0 3 | 22 46 | 27 55 | 0 11 | 16 45 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 17 | 0 3 | 22 46 | 28 31 | 29 57 | 17 25 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 18 | 0 2 | 22 45 | 29 6 | 29 47 | 17 59 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 19 | 0 1 | 22 45 | 29 41 | 29 39 | 18 28 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 20 | 0 0 | 22 45 | 0 16 | 29 33 | 18 52 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 21 | 29 59 | 22 46 | 0 51 | 29 30 | 19 9 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 22 | 29 58 | 22 46 | 1 26 | 29 28 | 19 18 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 23 | 29 57 | 22 47 | 2 1 | 29 20 | 19 21 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 24 | 29 56 | 22 47 | 2 8 | 29 34 | 19 14 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 25 | 29 54 | 22 48 | 3 11 | 29 40 | 19 0 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 26 | 29 53 | 22 49 | 3 46 | 29 48 | 18 37 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 27 | 29 51 | 22 50 | 4 21 | 29 58 | 18 10 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 28 | 29 49 | 22 52 | 4 56 | 0 10 | 17 35 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 29 | 29 47 | 22 54 | 5 30 | 0 26 | 16 34 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 30 | 29 45 | 22 57 | 6 4 | 0 43 | 15 31 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |
| 31 | 29 43 | 22 0 | 6 38 | 1 2 | 14 25 | ♂ ♀ | ♄ | ♅ | ♂ | ♂ | ♂ ♀ | ♄ | ♅ | ♂ |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 8 22 | 17 N 14 | 1 8 16 | 22 N 13 | 1 8 9 | 14 S 57 |
| 4 | 16 | 9 | 0 22 | 17 12 | 1 16 | 22 13 | 1 8 | 14 53 |
| 7 | 16 | 10 | 0 22 | 17 10 | 1 16 | 22 13 | 1 8 | 14 49 |
| 10 | 16 | 11 | 0 22 | 17 8 | 1 16 | 22 12 | 1 7 | 14 45 |
| 13 | 16 | 12 | 0 22 | 17 6 | 1 16 | 22 12 | 1 6 | 14 41 |
| 16 | 16 | 12 | 0 22 | 17 4 | 1 16 | 22 12 | 1 6 | 14 37 |
| 19 | 16 | 13 | 0 22 | 17 2 | 1 16 | 22 12 | 1 5 | 14 33 |
| 22 | 16 | 13 | 0 22 | 17 0 | 1 16 | 22 12 | 1 5 | 14 29 |
| 25 | 16 | 14 | 0 22 | 16 58 | 1 16 | 22 12 | 1 5 | 14 25 |
| 28 | 16 | 14 | 0 22 | 16 56 | 1 16 | 22 12 | 1 4 | 14 21 |
| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♄
Long.
° ' " | ♄
Lat.
° ' " | ♄
Declin.
° ' " | ♃
Long.
° ' " |
| 1 | Th | 14 40 50 | 8 m 31 17 | 14 S 21 | 6 Ω 6 | 5 N 17 | 23 N 53 | 19 8 16 |
| 2 | F | 14 44 47 | 9 31 24 | 14 41 | 18 4 | 5 7 | 20 18 | 19 8 14 |
| 3 | S | 14 48 43 | 10 31 33 | 15 0 | 29 57 | 4 45 | 15 56 | 19 11 |
| 4 | S | 14 52 40 | 11 31 44 | 15 18 | 11 m 48 | 4 10 | 10 59 | 19 9 |
| 5 | M | 14 56 36 | 12 31 57 | 15 37 | 23 41 | 3 24 | 5 38 | 19 6 |
| 6 | Tu | 15 0 33 | 13 32 12 | 15 55 | 5 Ω 42 | 2 29 | 0 1 | 19 4 |
| 7 | W | 15 4 30 | 14 32 29 | 16 13 | 17 52 | 1 27 | 5 S 41 | 19 1 |
| 8 | Th | 15 8 26 | 15 32 48 | 16 31 | 0 m 15 | 0 19 | 11 16 | 18 59 |
| 9 | F | 15 12 23 | 16 33 8 | 16 48 | 12 52 | 0 S 50 | 16 31 | 18 57 |
| 10 | S | 15 16 19 | 17 33 31 | 17 5 | 25 44 | 1 59 | 21 8 | 18 55 |
| 11 | S | 15 20 16 | 18 33 55 | 17 22 | 8 f 51 | 3 2 | 24 47 | 18 53 |
| 12 | M | 15 24 12 | 19 34 20 | 17 38 | 22 11 | 3 57 | 27 10 | 18 50 |
| 13 | Tu | 15 28 9 | 20 34 47 | 17 55 | 5 w 45 | 4 39 | 27 59 | 18 47 |
| 14 | W | 15 32 5 | 21 35 16 | 18 11 | 19 30 | 5 6 | 27 5 | 18 45 |
| 15 | Th | 15 36 2 | 22 35 45 | 18 26 | 3 m 25 | 5 15 | 24 31 | 18 42 |
| 16 | F | 15 39 59 | 23 36 17 | 18 41 | 17 27 | 5 6 | 20 28 | 18 40 |
| 17 | S | 15 43 55 | 24 36 49 | 18 56 | 1 x 36 | 4 38 | 15 14 | 18 37 |
| 18 | S | 15 47 52 | 25 37 23 | 19 11 | 15 50 | 3 54 | 9 11 | 18 35 |
| 19 | M | 15 51 48 | 26 37 57 | 19 25 | 0 r 6 | 2 54 | 2 38 | 18 32 |
| 20 | Tu | 15 55 45 | 27 38 33 | 19 39 | 14 21 | 1 44 | 4 N 4 | 18 30 |
| 21 | W | 15 59 41 | 28 39 10 | 19 53 | 28 33 | 0 28 | 10 32 | 18 27 |
| 22 | Th | 16 3 38 | 29 39 49 | 20 6 | 12 8 37 | 0 N 49 | 16 25 | 18 25 |
| 23 | F | 16 7 34 | 0 f 40 29 | 20 19 | 26 31 | 2 2 | 21 22 | 18 23 |
| 24 | S | 16 11 31 | 1 41 10 | 20 31 | 10 □ 10 | 3 7 | 25 4 | 18 21 |
| 25 | S | 16 15 28 | 2 41 52 | 20 43 | 23 31 | 4 0 | 27 18 | 18 18 |
| 26 | M | 16 19 24 | 3 42 36 | 20 55 | 6 Ω 34 | 4 39 | 27 56 | 18 16 |
| 27 | Tu | 16 23 21 | 4 43 21 | 21 6 | 19 18 | 5 3 | 27 4 | 18 14 |
| 28 | W | 16 27 17 | 5 44 8 | 21 17 | 1 Ω 44 | 5 12 | 24 51 | 18 11 |
| 29 | Th | 16 31 14 | 6 44 56 | 21 27 | 13 55 | 5 0 | 21 33 | 18 9 |
| 30 | F | 16 35 10 | 7 45 46 | 21 37 | 25 55 | 4 48 | 17 24 | 18 6 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 35 | 10 N 20 | 1 S 58 | 2 S 20 | 1 S 2 | 16 S 48 | 3 22 |
| 4 | 1 36 | 9 43 | 1 21 | 2 18 | 0 0 | 14 37 | 3 12 |
| 7 | 1 38 | 9 7 | 0 49 | 2 23 | 0 N 58 | 12 36 | 3 3 |
| 10 | 1 40 | 8 30 | 0 19 | 2 37 | 1 43 | 11 11 | 2 58 |
| 13 | 1 42 | 7 53 | 0 N 7 | 2 57 | 2 11 | 10 38 | 2 43 |
| 16 | 1 44 | 7 16 | 0 35 | 3 24 | 2 24 | 10 51 | 2 34 |
| 19 | 1 46 | 6 40 | 0 55 | 3 56 | 2 24 | 11 38 | 2 24 |
| 22 | 1 48 | 6 4 | 1 16 | 4 33 | 2 16 | 12 48 | 2 15 |
| 25 | 1 50 | 5 28 | 1 34 | 5 14 | 2 1 | 14 11 | 2 5 |
| 28 | 1 52 | 4 52 | 1 51 | 5 59 | 1 43 | 15 38 | 1 56 |

| D
M | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | | |
| 1 | 29 41 | 23 2 | 7 13 | 1 23 | 13 12 | | | ☐ | | | | | | * | |
| 2 | 29 39 | 23 4 | 7 47 | 1 46 | 11 55 | ☉ P ♄ | | | ☐ | | ♈ | | | | ☐ |
| 3 | 29 37 | 23 7 | 8 21 | 2 11 | 10 36 | ☉ ☿ ♀ | | | | * | | | | ♈ | * |
| 4 | 29 35 | 23 10 | 8 56 | 2 37 | 9 18 | ♀ * ♂ | * | | Δ | ☐ | | | | ♈ | * |
| 5 | 29 33 | 23 13 | 9 30 | 3 5 | 8 4 | | | | | | | | | | |
| 6 | 29 31 | 23 17 | 10 4 | 3 35 | 6 54 | | | | | | | | | ♈ | |
| 7 | 29 28 | 23 21 | 10 38 | 4 6 | 5 52 | ☉ ☐ ♈ | | | | | Δ | | | | ♈ |
| 8 | 29 25 | 23 25 | 11 12 | 4 38 | 5 1 | | | | | Δ | | | | | |
| 9 | 29 22 | 23 29 | 11 46 | 5 11 | 4 19 | ♀ ♄ ♀ | ♈ ♈ | | | | | | * | | |
| 10 | 29 19 | 23 33 | 12 19 | 5 46 | 3 48 | | | | | | ☐ | | | | |
| 11 | 29 16 | 23 37 | 12 52 | 6 24 | 3 29 | ☉ ♈ ☐ | | | | | | | | ☐ | * |
| 12 | 29 13 | 23 42 | 13 25 | 7 3 | 3 23 | | | | | | | | * | | |
| 13 | 29 9 | 23 47 | 13 58 | 7 42 | 3 D 27 | | | | | ♈ | | | | ☐ | * |
| 14 | 29 6 | 23 52 | 14 31 | 8 23 | 3 42 | | * | Δ | | | | | Δ | Δ | |
| 15 | 29 3 | 23 57 | 15 4 | 9 5 | 4 7 | ♄ ☐ ♀ | | | | | | | | Δ | ☐ |
| 16 | 28 59 | 24 2 | 15 38 | 9 48 | 4 40 | ☉ ☐ ♄ | ☐ ☐ | | | | ♈ | | | | |
| 17 | 28 56 | 24 8 | 16 11 | 10 32 | 5 22 | | | | | Δ | | | | | Δ |
| 18 | 28 52 | 24 14 | 16 44 | 11 17 | 6 11 | | | * | | | | | ♈ | | |
| 19 | 28 48 | 24 20 | 17 17 | 12 3 | 7 5 | | Δ | | ☐ | | | | | | |
| 20 | 28 44 | 24 26 | 17 50 | 12 50 | 8 6 | | | | | | | | | ♈ | |
| 21 | 28 40 | 24 32 | 18 22 | 13 38 | 9 11 | ☐ Δ ♂ | | | | * | * | | | | |
| 22 | 28 36 | 24 38 | 18 54 | 14 28 | 10 21 | | | | ♈ | | | | Δ | | ♈ |
| 23 | 28 32 | 24 44 | 19 26 | 15 17 | 11 33 | | ♈ | | | | ☐ | | | | |
| 24 | 28 28 | 24 51 | 19 58 | 16 8 | 12 49 | ♈ ☐ ♀ | | | | ♈ | | | | Δ | |
| 25 | 28 24 | 24 58 | 20 30 | 16 59 | 14 7 | | | | | ♈ | Δ | ☐ | | | |
| 26 | 28 19 | 25 5 | 21 2 | 17 51 | 15 29 | | | | | | | | | | |
| 27 | 28 14 | 25 12 | 21 34 | 18 44 | 16 51 | | | * | | | | | * | ☐ | Δ |
| 28 | 28 10 | 25 20 | 22 5 | 19 38 | 18 15 | ☐ ☐ ♀ | Δ | | ☐ | | | | | | |
| 29 | 28 6 | 25 27 | 22 37 | 20 32 | 19 41 | | | | | * | | | | * | |
| 30 | 28 2 | 25 35 | 23 8 | 21 27 | 21 8 | ☉ ♄ ♂ | | | | * | ♈ | | * | | ☐ |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 22 | 16 N 55 | 1 S 16 | 22 N 12 | 1 S 4 | 13 S 59 |
| 4 | 16 | 16 | 0 22 | 16 53 | 1 16 | 22 12 | 1 4 | 13 50 |
| 7 | 16 | 17 | 0 22 | 16 51 | 1 16 | 22 12 | 1 3 | 13 41 |
| 10 | 16 | 17 | 0 22 | 16 49 | 1 16 | 22 12 | 1 3 | 13 31 |
| 13 | 16 | 17 | 0 22 | 16 48 | 1 15 | 22 12 | 1 2 | 13 21 |
| 16 | 16 | 18 | 0 22 | 16 46 | 1 15 | 22 12 | 1 2 | 13 11 |
| 19 | 16 | 18 | 0 22 | 16 45 | 1 15 | 22 12 | 1 2 | 13 0 |
| 22 | 16 | 18 | 0 22 | 16 43 | 1 14 | 22 12 | 1 2 | 12 49 |
| 25 | 16 | 18 | 0 22 | 16 42 | 1 14 | 22 11 | 1 2 | 12 37 |
| 28 | 16 | 18 | 0 22 | 16 41 | 1 13 | 22 11 | 1 1 | 12 25 |
| 31 | 16 | 18 | 0 21 | 16 40 | 1 13 | 22 11 | 1 1 | 12 13 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | " | ° | ' | ° |
| 1 | S | 16 | 39 | 7 | 8 † 46 | 37 | 21 S 47 | 7 m 48 | 4 N 17 | 12 N 37 |
| 2 | S | 16 | 43 | 3 | 9 47 | 29 21 | 56 19 38 | 3 35 | 7 24 | 18 R 1 |
| 3 | M | 16 | 47 | 0 | 10 48 | 23 22 | 5 1 31 | 2 44 | 1 54 | 17 59 |
| 4 | Tu | 16 | 50 | 57 | 11 49 | 18 22 | 13 13 33 | 1 45 | 3 S 44 | 17 59 |
| 5 | W | 16 | 54 | 53 | 12 50 | 15 22 | 21 25 47 | 0 40 | 9 21 | 17 55 |
| 6 | Th | 16 | 58 | 50 | 13 51 | 12 22 | 29 8 m 17 | 0 S 28 | 14 43 | 17 53 |
| 7 | F | 17 | 2 | 46 | 14 52 | 11 22 | 36 21 7 | 1 36 | 19 36 | 17 51 |
| 8 | S | 17 | 6 | 43 | 15 53 | 11 22 | 43 4 † 17 | 2 40 | 23 39 | 17 49 |
| 9 | S | 17 | 10 | 39 | 16 54 | 12 22 | 49 17 48 | 3 38 | 26 31 | 17 47 |
| 10 | M | 17 | 14 | 36 | 17 55 | 13 22 | 55 1 w 37 | 4 23 | 27 50 | 17 45 |
| 11 | Tu | 17 | 18 | 32 | 18 56 | 15 23 | 0 15 39 | 4 54 | 27 24 | 17 43 |
| 12 | W | 17 | 22 | 29 | 19 57 | 18 23 | 5 29 52 | 5 7 | 25 12 | 17 41 |
| 13 | Th | 17 | 26 | 26 | 20 58 | 22 23 | 9 14 m 9 | 5 1 | 22 24 | 17 39 |
| 14 | F | 17 | 30 | 22 | 21 59 | 26 23 | 13 28 26 | 4 37 | 16 21 | 17 37 |
| 15 | S | 17 | 34 | 19 | 23 0 | 30 23 | 17 12 x 39 | 3 55 | 10 26 | 17 35 |
| 16 | S | 17 | 38 | 15 | 24 1 | 35 23 | 20 26 47 | 2 59 | 4 1 | 17 33 |
| 17 | M | 17 | 42 | 12 | 25 2 | 40 23 | 22 10 r 48 | 1 53 | 2 N 32 | 17 31 |
| 18 | Tu | 17 | 46 | 8 | 26 3 | 45 23 | 24 24 41 | 0 41 | 8 56 | 17 29 |
| 19 | W | 17 | 50 | 5 | 27 4 | 51 23 | 26 8 x 26 | 0 N 32 | 14 50 | 17 27 |
| 20 | Th | 17 | 54 | 2 | 28 5 | 57 23 | 27 22 2 | 1 43 | 19 57 | 17 25 |
| 21 | F | 17 | 57 | 58 | 29 7 | 3 23 | 27 5 □ 30 | 2 47 | 23 59 | 17 23 |
| 22 | S | 18 | 1 | 55 | 0 w 8 | 10 23 | 28 18 46 | 3 41 | 26 40 | 17 21 |
| 23 | S | 18 | 5 | 51 | 1 9 | 17 23 | 27 1 50 | 4 23 | 27 50 | 17 20 |
| 24 | M | 18 | 9 | 48 | 2 10 | 24 23 | 27 14 40 | 4 50 | 27 27 | 17 18 |
| 25 | Tu | 18 | 13 | 44 | 3 11 | 31 23 | 25 27 16 | 5 2 | 25 40 | 17 17 |
| 26 | W | 18 | 17 | 41 | 4 12 | 39 23 | 24 9 Ω 38 | 5 0 | 22 40 | 17 15 |
| 27 | Th | 18 | 21 | 37 | 5 13 | 47 23 | 21 21 47 | 4 44 | 18 44 | 17 14 |
| 28 | F | 18 | 25 | 34 | 6 14 | 56 23 | 19 3 m 45 | 4 16 | 14 7 | 17 12 |
| 29 | S | 18 | 29 | 31 | 7 16 | 5 23 | 16 15 36 | 3 37 | 9 1 | 17 11 |
| 30 | S | 18 | 33 | 27 | 8 17 | 15 23 | 12 27 25 | 2 49 | 3 36 | 17 10 |
| 31 | M | 18 | 37 | 24 | 9 18 | 24 23 | 8 9 Δ 17 | 1 53 | 1 S 57 | 17 9 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 54 | 4 N 17 | 2 N 4 | 6 S 48 | 1 N 23 | 17 S 7 | 1 8 47 |
| 4 | 1 56 | 3 42 | 2 17 | 7 39 | 1 2 | 18 32 | 1 38 |
| 7 | 1 58 | 3 7 | 2 28 | 8 32 | 0 40 | 19 52 | 1 28 |
| 10 | 2 0 | 2 34 | 2 36 | 9 26 | 0 8 | 21 4 | 1 19 |
| 13 | 2 2 | 2 0 | 2 43 | 10 22 | 0 8 3 | 22 9 | 1 9 |
| 16 | 2 4 | 1 28 | 2 49 | 11 18 | 0 23 | 23 4 | 0 59 |
| 19 | 2 6 | 0 56 | 2 53 | 12 15 | 0 44 | 23 49 | 0 50 |
| 22 | 2 9 | 0 25 | 2 55 | 13 11 | 1 11 | 24 23 | 0 40 |
| 25 | 2 12 | 0 S 6 | 2 57 | 14 6 | 1 17 | 24 46 | 0 31 |
| 28 | 2 14 | 0 35 | 2 57 | 15 0 | 1 34 | 24 56 | 0 21 |
| 31 | 2 16 | 1 4 | 2 55 | 15 52 | 1 43 | 24 54 | 0 11 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | ♂ |
| | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 27 58 | 25 43 | 23 39 | 22 21 | 22 35 | 35 | ♀ √ ♀ | ☐ | | | | | | |
| 2 | 27 54 | 25 51 | 24 10 | 23 17 | 24 4 | 4 | ♀ * ♂ | ☐ | Δ | | ♂ | | | * |
| 3 | 27 50 | 25 59 | 24 41 | 24 14 | 25 33 | 33 | ♀ ☐ ♀ | * | | ☐ | | | | |
| 4 | 27 45 | 26 8 | 25 11 | 25 12 | 27 3 | 3 | ♀ √ ♂ | * | | | | | | |
| 5 | 27 40 | 26 16 | 25 41 | 26 10 | 28 33 | 33 | ♀ Δ ♀ | | | Δ | Δ | | ♂ | |
| 6 | 27 35 | 26 24 | 26 11 | 27 9 | 0 4 | 4 | ♀ Δ h | | | | | | | |
| 7 | 27 30 | 26 33 | 26 41 | 28 7 | 1 35 | 35 | | | ♂ | | ☐ | * | | |
| 8 | 27 25 | 26 42 | 27 12 | 29 6 | 3 6 | 6 | h ☐ ♂ | | | | | | | ♂ |
| 9 | 27 20 | 26 51 | 27 42 | 0 m | 6 4 | 38 | | ♂ | | | | | | |
| 10 | 27 15 | 27 0 | 28 12 | 1 7 | 6 11 | 11 | | | | ♂ | * | ☐ | * | |
| 11 | 27 10 | 27 9 | 28 42 | 2 7 | 7 43 | 43 | ♀ Δ h | | Δ | | | | | |
| 12 | 27 5 | 27 19 | 29 12 | 3 8 | 9 14 | 14 | | | | | | Δ | ☐ | |
| 13 | 27 0 | 27 29 | 29 41 | 4 9 | 10 46 | 46 | | | ☐ | | | | | * |
| 14 | 26 55 | 27 38 | 0 10 | 5 11 | 12 19 | 19 | | * | | Δ | ♂ | | | |
| 15 | 26 50 | 27 47 | 0 39 | 6 13 | 13 52 | 52 | | | * | | | | Δ | ☐ |
| 16 | 26 45 | 27 57 | 1 8 | 7 16 | 15 25 | 25 | | ☐ | | ☐ | | ♂ | | |
| 17 | 26 40 | 28 7 | 1 37 | 8 19 | 16 58 | 58 | | | | | | | | Δ |
| 18 | 26 35 | 28 17 | 2 6 | 9 22 | 18 31 | 31 | ☉ ♂ h | Δ | | * | * | | | |
| 19 | 26 31 | 28 27 | 2 33 | 10 26 | 20 4 | 4 | ☿ ☐ ♂ | | | | | | ♂ | |
| 20 | 26 26 | 28 37 | 3 1 | 11 30 | 21 38 | 38 | ♀ ☐ h | | ♂ | | ☐ | | | |
| 21 | 26 21 | 28 47 | 3 29 | 12 34 | 23 12 | 12 | ☉ * ♀ | | | | | Δ | | |
| 22 | 26 16 | 28 58 | 3 57 | 13 39 | 24 46 | 46 | ♀ ☐ ♀ | | | | | | | |
| 23 | 26 11 | 29 9 | 4 25 | 14 44 | 26 20 | 20 | h ♂ ♀ | ♂ | * | ♂ | Δ | ☐ | | ♂ |
| 24 | 26 6 | 29 20 | 4 51 | 15 49 | 27 54 | 54 | ☉ ☐ h | | * | | | | Δ | |
| 25 | 26 1 | 29 31 | 5 18 | 16 54 | 29 28 | 28 | ♀ * ♀ | | | | | | | |
| 26 | 25 57 | 29 42 | 5 45 | 18 0 | 1 w | 4 | | | | | | | * | |
| 27 | 25 52 | 29 53 | 6 12 | 19 6 | 2 39 | 39 | | | | ☐ | * | | ☐ | |
| 28 | 25 47 | 0 4 | 6 38 | 20 13 | 4 14 | 14 | | Δ | | | | ♂ | | Δ |
| 29 | 25 42 | 0 15 | 7 4 | 21 19 | 5 50 | 50 | ☉ ☐ ♂ | | Δ | | | | | |
| 30 | 25 37 | 0 27 | 7 30 | 22 26 | 7 26 | 26 | ♀ √ ♂ | | | ☐ | | | * | |
| 31 | 25 32 | 0 39 | 7 55 | 23 33 | 9 2 | 2 | ☉ ♂ ♀ | ☐ | | | | ♂ | | ☐ |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ° | | | | ° | ° | ° | ° | ' | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 32 | 5 | 28 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 28 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 28 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 40 | 17 | 6 | 2 | 6 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 16 | 23 | 20 | 48 | 9 | 2 |
| 0 | 22 | 3 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 25 | 43 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 26 | 11 | 22 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 48 | 13 | 8 |
| 0 | 44 | 8 | 12 | 23 | 4 | 5 | 58 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 9 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 12 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 0 | 26 | 48 | 15 | 11 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 3 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 3 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 14 |
| 1 | 10 | 7 | 19 | II | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 20 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 0 | 5 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 12 | 12 | 22 | 29 | 21 | 3 | 18 | 19 | 22 | 1 | 6 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 29 | 22 | 3 | 22 | 23 | 23 | 2 | 7 | 2 | 59 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 3 | 26 | 29 | 24 | 3 | 8 | 3 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 4 | 8 | 4 | 23 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 2 | 25 | 3 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 25 | 21 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 6 | 10 | 5 | 47 | 26 | 22 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 22 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 24 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 28 | 25 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ° | | | | ° | ° | ° | ° | ' | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 28 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 22 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 29 | 27 | 6 | 8 | 43 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 13 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 13 | 5 | 14 | 16 | 11 | 30 | 2 | 29 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 25 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 28 |
| 4 | 20 | 40 | 7 | 15 | 18 | 12 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 29 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | 29 | 30 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 1 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 29 | 2 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 3 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 3 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 43 | 4 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 5 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 5 | 7 |
| 4 | 59 | 10 | 16 | 24 | 25 | 19 | 33 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 20 | 11 | 56 | 6 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 12 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 7 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 8 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 9 | 11 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 26 | 23 | 14 | 52 | 10 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 36 | 10 | 13 |
| 5 | 25 | 9 | 22 | 29 | 29 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 20 | 11 | 14 |
| 5 | 29 | 30 | 23 | 30 | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 12 | 14 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 13 | 15 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 29 | 28 | 18 | 30 | 14 | 16 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 1 | 29 | 19 | 13 | 15 | 17 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 2 | 29 | 19 | 57 | 15 | 18 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 3 | 30 | 20 | 40 | 16 | 19 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 4 | 1 | 21 | 23 | 17 | 20 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 45 | 30 | 5 | 2 | 22 | 8 | 18 | 21 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|----|
| H. | M. | S. | Q | W | U | ° | ' | m | f | H. | M. | S. | W | U | U | ° | ' | f | W | |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 | |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 | |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 | |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 | |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 | |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 | |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 | |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 | |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 | |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 | |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | W | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 | |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | m | |
| 8 | 57 | 52 | 12 | 16 | 11 | 0m | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 | |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 | |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 | |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 | |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | f | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 | |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 | |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 | |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 | |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 | |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 | |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 13 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 | |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | W | 13 | |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 | |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 15 | |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 | |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 17 | |
| 10 | 0 | 43 | 28 | 29 | 24 | 11 | 9 | 10 | 18 | 11 | 53 | 49 | 28 | 25 | 15 | 0 | f | 35 | 4 | 18 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 46 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 5 | 30 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 6 | 21 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
↑ | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
↑ | | 2 | 3 |
|----------------------------|----|----|----|----|----|------------|----|----|----|----------------------------|----|----|----|----|----|------------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 12 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 8 | 40 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 29 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 12 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | r |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 28 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 13 | 3 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 28 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 25 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 7 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | * | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 22 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0vr | 45 | 20 | 9 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | f | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 26 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 18 |
| 12 | 59 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 26 | * | 19 |
| 12 | 3 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 20 |
| 12 | 6 | 23 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 21 |
| 12 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 38 | 6 | 23 |
| 12 | 13 | 51 | 20 | 13 | f | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 12 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 12 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 12 | 25 | 6 | 23 | 15 | 2 | 17 | 38 | 29 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 28 |
| 12 | 28 | 52 | 24 | 16 | 3 | 18 | 26 | vr | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 29 |
| 12 | 32 | 38 | 25 | 17 | 4 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 5 |
| 12 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 22 | 15 | 34 | 41 | 26 | 14 | vr | 18 | 53 | 19 | 2 |
| 12 | 40 | 12 | 27 | 19 | 6 | 20 | 48 | 3 | 23 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 3 |
| 12 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 24 | 15 | 42 | 57 | 28 | 15 | 2 | 21 | 28 | 22 | 4 |
| 12 | 47 | 48 | 29 | 21 | 7 | 22 | 16 | 5 | 25 | 15 | 47 | 6 | 29 | 16 | 3 | 22 | 50 | 24 | 6 |
| 12 | 51 | 27 | 30 | 22 | 8 | 23 | 4 | 7 | 27 | 15 | 51 | 15 | 30 | 17 | 4 | 24 | 18 | 26 | 7 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
VT | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
T | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------------|----|----|----|----------------------------|----|----|----|----|----|------------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 22 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 38 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 13 | 5 | 46 | 23 | 15 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 35 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | 0 | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 23 | 18 | 14 | 9 | 27 | 19 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 58 | 28 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 11 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 22 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 2 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 24 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 28 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | VT | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 2 | 6 | 59 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 12 | 30 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 8 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 25 | 0 | 7 | 2 | II | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 29 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 2 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 34 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 22 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 23 | 26 | 32 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 8 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 12 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 49 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 1 | II | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 7 | 2 | 51 | 25 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 31 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 13 | 20 | 8 | 45 | 30 | 23 | 3 | 5 | 47 | 26 | 13 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
II | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen
II | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------------|----|----|----|----------------------------|----|----|----|----|----|-------------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 23 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 23 | 8 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 23 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 32 | 28 | 14 | 23 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 23 | 12 |
| 20 | 21 | 11 | 3 | 27 | 9 | 9 | 50 | 29 | 15 | 23 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 14 |
| 20 | 25 | 19 | 4 | 28 | 11 | 11 | 7 | 35 | 16 | 23 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 35 | 16 |
| 20 | 29 | 26 | 5 | 29 | 13 | 12 | 23 | 1 | 17 | 23 | 27 | 22 | 5 | 9 | 29 | 10 | 50 | 26 | 18 |
| 20 | 33 | 31 | 6 | 30 | 15 | 13 | 39 | 2 | 18 | 23 | 31 | 8 | 6 | 10 | II | 11 | 35 | 26 | 20 |
| 20 | 37 | 37 | 7 | 31 | 17 | 14 | 50 | 3 | 19 | 23 | 34 | 54 | 7 | 12 | 1 | 12 | 22 | 27 | 22 |
| 20 | 41 | 41 | 8 | 32 | 18 | 16 | 0 | 4 | 20 | 23 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 24 |
| 20 | 45 | 45 | 9 | 33 | 20 | 17 | 8 | 5 | 21 | 23 | 42 | 25 | 9 | 14 | 3 | 13 | 49 | 29 | 26 |
| 20 | 49 | 48 | 10 | 34 | 22 | 18 | 16 | 6 | 22 | 23 | 46 | 0 | 10 | 16 | 4 | 14 | 33 | 29 | 28 |
| 20 | 53 | 51 | 11 | 35 | 24 | 19 | 22 | 7 | 23 | 23 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 30 | 30 |
| 20 | 57 | 52 | 12 | 36 | 26 | 20 | 27 | 7 | 23 | 23 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 1 | 32 |
| 21 | 1 | 53 | 13 | 37 | 27 | 21 | 30 | 8 | 24 | 23 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 2 | 34 |
| 21 | 5 | 53 | 14 | 38 | 29 | 22 | 32 | 9 | 25 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 3 | 36 |
| 21 | 9 | 53 | 15 | 39 | 30 | 23 | 32 | 10 | 26 | 23 | 4 | 46 | 15 | 22 | 10 | 18 | 7 | 4 | 38 |
| 21 | 13 | 52 | 16 | 40 | 31 | 24 | 32 | 11 | 27 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 4 | 40 |
| 21 | 17 | 50 | 17 | 41 | 32 | 25 | 30 | 12 | 27 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 5 | 42 |
| 21 | 21 | 47 | 18 | 42 | 33 | 26 | 28 | 13 | 28 | 23 | 15 | 52 | 18 | 25 | 13 | 20 | 12 | 6 | 44 |
| 21 | 25 | 44 | 19 | 43 | 34 | 27 | 24 | 14 | 29 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 6 | 46 |
| 21 | 29 | 40 | 20 | 44 | 35 | 28 | 20 | 15 | 30 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 7 | 48 |
| 21 | 33 | 35 | 21 | 45 | 36 | 29 | 15 | 16 | 31 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 8 | 50 |
| 21 | 37 | 29 | 22 | 46 | 37 | 0 | 9 | 16 | 32 | 23 | 30 | 37 | 22 | 30 | 17 | 23 | 52 | 8 | 52 |
| 21 | 41 | 23 | 23 | 47 | 38 | 1 | 2 | 16 | 33 | 23 | 34 | 18 | 23 | 31 | 18 | 23 | 33 | 9 | 54 |
| 21 | 45 | 16 | 24 | 48 | 39 | 1 | 55 | 17 | 34 | 23 | 37 | 58 | 24 | 32 | 19 | 24 | 13 | 10 | 56 |
| 21 | 49 | 9 | 25 | 49 | 40 | 2 | 47 | 18 | 35 | 23 | 41 | 39 | 25 | 33 | 20 | 24 | 53 | 11 | 58 |
| 21 | 53 | 1 | 26 | 50 | 41 | 3 | 39 | 19 | 36 | 23 | 45 | 19 | 26 | 34 | 21 | 25 | 35 | 11 | 60 |
| 21 | 56 | 52 | 27 | 51 | 42 | 4 | 30 | 20 | 37 | 23 | 49 | 0 | 27 | 35 | 22 | 26 | 11 | 12 | 62 |
| 22 | 0 | 43 | 28 | 52 | 43 | 5 | 18 | 21 | 38 | 23 | 53 | 40 | 28 | 36 | 23 | 27 | 37 | 12 | 64 |
| 22 | 4 | 33 | 29 | 53 | 44 | 6 | 7 | 21 | 39 | 23 | 56 | 20 | 29 | 37 | 24 | 28 | 37 | 12 | 66 |
| 22 | 8 | 23 | 30 | 54 | 45 | 7 | 56 | 22 | 40 | 23 | 59 | 9 | 30 | 38 | 25 | 29 | 37 | 12 | 68 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING** and **RESTORATIVE** Properties. Hence their invariable success in the **RELIEF** and **CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 6d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

AND Invalids should read Crosby's Prize Treatise on "**DISEASES OF THE LUNGS AND AIR VESSELS**," a copy of which can be had **Gratis** of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR

Opium, Narcotics, and Squills, are too often invoked to give relief to Coughs, Colds, and all Pulmonary Diseases. Instead of such false remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which is at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says: "I have repeatedly observed how very rapidly and invariably it cures Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as the most valuable adjunct to an otherwise strengthening treatment in this disease."

CROSBY'S BALSAMIC COUGH ELIXIR

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c. may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

**CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Ask your Chemist for the New Edition (GRAND) of Crosby's Treatise on "DISEASES OF THE LUNGS AND AIR-PASSES" containing full and plain instructions for the relief and cure of the diseases, or POST FREE from JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

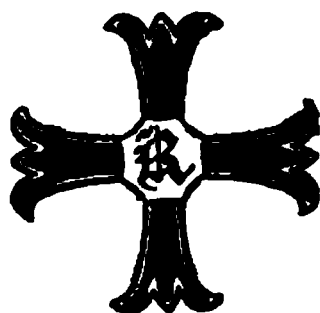
Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS

OF THE
PLANETS' PLACES

For 1856.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

(A(m.) 939 t. 16c

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Roke under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual within a body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of any Chemist, or post free from Dr. ROOKE, Scarborough, England.

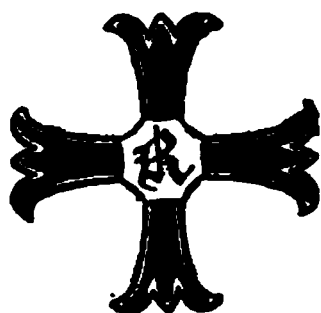
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 172 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1856.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.
Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 18 | 0 S 19 | 16 N 39 | 1 S 12 | 22 N 11 | 1 S 1 | 12 S 9 |
| 4 | 16 | 18 | 0 19 | 16 39 | 1 12 | 22 11 | 1 1 | 11 53 |
| 7 | 16 | 18 | 0 19 | 16 38 | 1 11 | 22 11 | 1 1 | 11 43 |
| 10 | 16 | 18 | 0 19 | 16 37 | 1 11 | 22 11 | 1 1 | 11 39 |
| 13 | 16 | 18 | 0 19 | 16 37 | 1 10 | 22 11 | 1 0 | 11 15 |
| 16 | 16 | 18 | 0 19 | 16 36 | 1 10 | 22 11 | 1 0 | 11 1 |
| 19 | 16 | 17 | 0 19 | 16 36 | 1 9 | 22 11 | 1 0 | 10 47 |
| 22 | 16 | 17 | 0 19 | 16 36 | 1 8 | 22 11 | 1 0 | 10 32 |
| 25 | 16 | 17 | 0 19 | 16 36 | 1 8 | 22 11 | 1 0 | 10 17 |
| 28 | 16 | 17 | 0 19 | 16 36 | 1 7 | 22 11 | 1 0 | 10 2 |
| 31 | 16 | 16 | 0 19 | 16 36 | 1 6 | 22 12 | 1 0 | 9 47 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Tu | 18 41 20 | 10 w 19 35 | 23 S 3 | 21 16 | 0 N 52 | 7 S 30 | 17 8 |
| 2 | W | 18 45 17 | 11 20 45 | 22 59 | 3 m 29 | 0 S 13 | 12 53 | 17 7 |
| 3 | Th | 18 49 13 | 12 21 56 | 22 53 | 16 0 | 1 19 | 17 54 | 17 6 |
| 4 | F | 18 53 10 | 13 23 7 | 22 47 | 28 54 | 2 22 | 22 14 | 17 4 |
| 5 | S | 18 57 6 | 14 24 18 | 22 41 | 12 13 | 3 20 | 25 35 | 17 3 |
| 6 | S | 19 1 3 | 15 25 29 | 22 34 | 25 59 | 4 8 | 27 32 | 17 2 |
| 7 | M | 19 5 0 | 16 26 39 | 22 27 | 10 w 9 | 4 42 | 27 46 | 17 1 |
| 8 | Tu | 19 8 56 | 17 27 50 | 22 19 | 24 38 | 4 59 | 26 7 | 16 55 |
| 9 | W | 19 12 53 | 18 29 0 | 22 11 | 9 19 | 4 57 | 22 42 | 16 58 |
| 10 | Th | 19 16 49 | 19 30 10 | 22 2 | 24 5 | 4 35 | 17 49 | 16 58 |
| 11 | F | 19 20 46 | 20 31 20 | 21 53 | 8 46 | 3 55 | 11 55 | 16 58 |
| 12 | S | 19 24 42 | 21 32 28 | 21 44 | 23 17 | 3 0 | 5 25 | 16 57 |
| 13 | S | 19 28 39 | 22 33 37 | 21 34 | 7 35 | 1 54 | 1 N 16 | 16 57 |
| 14 | M | 19 32 35 | 23 34 44 | 21 24 | 21 36 | 0 43 | 7 46 | 16 57 |
| 15 | Tu | 19 36 32 | 24 35 51 | 21 13 | 5 21 | 0 N 30 | 13 47 | 16 56 |
| 16 | W | 19 40 29 | 25 36 57 | 21 2 | 18 51 | 1 39 | 19 2 | 16 56 |
| 17 | Th | 19 44 25 | 26 38 2 | 20 51 | 2 8 | 2 42 | 23 15 | 16 55 |
| 18 | F | 19 48 22 | 27 39 6 | 20 39 | 15 12 | 3 35 | 26 12 | 16 55 |
| 19 | S | 19 52 18 | 28 40 9 | 20 27 | 28 6 | 4 17 | 27 43 | 16 55 |
| 20 | S | 19 56 15 | 29 41 12 | 20 14 | 10 49 | 4 44 | 27 45 | 16 55 |
| 21 | M | 20 0 11 | 0 m 42 | 13 20 | 1 23 | 22 4 | 58 26 | 20 16 |
| 22 | Tu | 20 4 8 | 1 43 14 | 19 48 | 5 44 | 4 57 | 23 39 | 16 54 |
| 23 | W | 20 8 5 | 2 44 14 | 19 34 | 17 56 | 4 43 | 19 57 | 16 54 |
| 24 | Th | 20 12 1 | 3 45 14 | 19 20 | 29 59 | 4 16 | 15 28 | 16 54 |
| 25 | F | 20 15 58 | 4 46 12 | 19 5 | 11 54 | 3 37 | 10 27 | 16 54 |
| 26 | S | 20 19 54 | 5 47 10 | 18 50 | 23 44 | 2 50 | 5 6 | 16 D 54 |
| 27 | S | 20 23 51 | 6 48 8 | 18 34 | 5 31 | 1 55 | 0 S 26 | 16 55 |
| 28 | M | 20 27 47 | 7 49 4 | 18 20 | 17 21 | 0 55 | 5 58 | 16 55 |
| 29 | Tu | 20 31 44 | 8 50 0 | 18 4 | 29 18 | 0 S 8 | 11 21 | 16 55 |
| 30 | W | 20 35 40 | 9 50 55 | 17 48 | 11 27 | 1 11 | 16 25 | 16 55 |
| 31 | Th | 20 39 37 | 10 51 50 | 17 31 | 23 55 | 2 18 | 20 55 | 16 55 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 2 N 17 | 1 S 13 | 2 N 54 | 16 S 9 | 1 S 49 | 24 S 50 | 0 8 8 |
| 4 | 2 19 | 1 40 | 2 50 | 16 58 | 1 57 | 24 30 | 29 r 59 |
| 7 | 2 22 | 2 6 | 2 46 | 17 45 | 2 4 | 23 57 | 29 50 |
| 10 | 2 24 | 2 31 | 2 42 | 18 28 | 2 7 | 23 9 | 29 40 |
| III | 2 27 | 2 55 | 2 37 | 19 8 | 2 6 | 22 7 | 29 31 |
| 16 | 2 29 | 3 17 | 2 31 | 19 45 | 2 0 | 20 50 | 29 21 |
| 19 | 2 32 | 3 38 | 2 23 | 20 17 | 1 49 | 19 20 | 29 12 |
| 22 | 2 34 | 3 58 | 2 15 | 20 45 | 1 33 | 17 38 | 29 2 |
| 25 | 2 37 | 4 16 | 2 7 | 21 8 | 1 9 | 15 46 | 28 52 |
| 28 | 2 40 | 4 33 | 1 58 | 21 26 | 0 38 | 13 48 | 28 43 |
| 31 | 2 42 | 4 48 | 1 48 | 21 39 | 0 0 | 11 50 | 28 33 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspects. | Lunar Aspects. | | | |
|--------|---------|--------|--------|---------|---------|-------|--------------------|----------------|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☾ | ☽ | ☾ | ☽ |
| | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 25 n 28 | 0 x 51 | 8 n 21 | 24 m 40 | 10 w 98 | | | | | | |
| 2 | 25 R 23 | 1 3 | 8 46 | 25 47 | 12 16 | | | | | | |
| 3 | 25 18 | 1 15 | 9 11 | 26 54 | 13 53 | ♀ P h | | | | * | |
| 4 | 25 14 | 1 27 | 9 36 | 28 2 | 15 31 | | | | ♂ | | |
| ■ | 25 9 | 1 39 | 10 0 | 29 10 | 17 9 | ♂ Δ h | | | | | |
| 6 | 25 4 | 1 51 | 10 24 | 0 f 18 | 18 48 | | | | | | |
| 7 | 25 0 | 2 3 | 10 48 | 1 27 | 20 27 | ☉ Δ ♀ | | | | | |
| 8 | 24 55 | 2 15 | 11 11 | 2 35 | 22 7 | ☉ Δ h | | | | | ♂ |
| 9 | 24 51 | 2 26 | 11 34 | 3 44 | 23 46 | | | | * | | |
| 10 | 24 47 | 2 40 | 11 57 | 4 53 | 25 26 | | | | | | |
| 11 | 24 43 | 2 52 | 12 20 | 6 2 | 27 6 | | | | ♂ | □ | * |
| 12 | 24 39 | 3 5 | 12 42 | 7 11 | 28 47 | | | ☾ | ☾ | □ | * |
| 13 | 24 35 | 3 17 | 13 4 | 8 20 | 0 m 29 | ♂ P h | | | ☾ | ☾ | * |
| 14 | 24 31 | 3 30 | 13 25 | 9 30 | 2 10 | | | ☾ | * | * | |
| 15 | 24 27 | 3 43 | 13 46 | 10 40 | 3 51 | | | | | * | □ |
| 16 | 24 23 | 3 56 | 14 7 | 11 49 | 5 32 | ☉ P ♀ | | Δ | ♂ | | |
| 17 | 24 20 | 4 9 | 14 28 | 12 59 | 7 14 | | | | | □ | Δ |
| 18 | 24 16 | 4 22 | 14 48 | 14 9 | 8 56 | ♂ □ h | | | | Δ | ♂ |
| 19 | 24 12 | 4 35 | 15 8 | 15 19 | 10 37 | ♂ * ♂ | | | ♂ | | |
| 20 | 24 9 | 4 48 | 15 28 | 16 29 | 12 21 | | | * | | Δ | □ |
| 21 | 24 5 | 5 1 | 15 47 | 17 39 | 13 59 | | | | | | |
| 22 | 24 2 | 5 14 | 16 0 | 18 49 | 15 38 | ♂ Δ ♂ | ♂ | | | | |
| 23 | 23 59 | 5 28 | 16 25 | 19 59 | 17 17 | ♂ □ h | | □ | ☾ | * | Δ |
| 24 | 23 55 | 5 41 | 16 43 | 21 10 | 18 54 | | | | | ♂ | |
| 25 | 23 52 | 5 55 | 17 0 | 22 21 | 20 29 | | | | Δ | | |
| 26 | 23 49 | 6 8 | 17 17 | 23 31 | 22 3 | ♀ ♂ h | | | □ | | □ |
| 27 | 23 46 | 6 22 | 17 33 | 24 42 | 23 34 | | | Δ | | | |
| 28 | 23 43 | 6 35 | 17 49 | 25 53 | 25 1 | | | | | ♂ | |
| 29 | 23 41 | 6 49 | 18 5 | 27 4 | 25 25 | ☉ □ h | | | Δ | ☾ | Δ |
| 30 | 23 38 | 7 2 | 18 20 | 28 15 | 27 45 | | | □ | ♂ | ☾ | |
| 31 | 23 35 | 7 16 | 18 35 | 29 27 | 29 0 | | | | | | □ |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 8 | 19 | 1 8 | 6 | 22 N 12 | 1 8 0 |
| 4 | 16 | 15 | 0 | 19 | 1 | 6 | 22 12 | 1 0 |
| 7 | 16 | 15 | 0 | 19 | 1 | 5 | 22 12 | 1 0 |
| 10 | 16 | 14 | 0 | 18 | 1 | 5 | 22 13 | 1 0 |
| 13 | 16 | 14 | 0 | 18 | 1 | 4 | 22 13 | 1 0 |
| 16 | 16 | 13 | 0 | 18 | 1 | 4 | 22 14 | 1 0 |
| 19 | 16 | 12 | 0 | 18 | 1 | 3 | 22 14 | 1 0 |
| 22 | 16 | 12 | 0 | 18 | 1 | 3 | 22 15 | 1 0 |
| 25 | 16 | 11 | 0 | 18 | 1 | 2 | 22 15 | 1 0 |
| 28 | 16 | 10 | 0 | 18 | 1 | 1 | 22 16 | 1 0 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | F | 20 43 34 | 11 | 52 43 | 17 8 15 | 6 1 48 | 3 8 11 | 24 8 35 |
| 2 | S | 20 47 30 | 12 | 53 36 | 16 57 20 | 3 | 4 0 27 | 4 16 5 |
| 3 | S | 20 51 27 | 13 | 54 28 | 16 40 3 | 3 50 | 4 37 28 | 1 16 5 |
| 4 | M | 20 55 23 | 14 | 55 18 | 16 22 18 | 6 | 4 58 27 | 9 16 5 |
| 5 | Tu | 20 59 20 | 15 | 56 8 | 16 4 2 | 47 | 5 0 24 | 25 16 5 |
| 6 | W | 21 3 16 | 16 | 56 56 | 15 46 17 | 46 | 4 43 20 | 0 16 5 |
| 7 | Th | 21 7 13 | 17 | 57 44 | 15 28 2 | 54 | 4 5 14 | 15 16 5 |
| 8 | F | 21 11 10 | 18 | 58 29 | 15 9 18 | 0 | 3 10 7 | 40 16 5 |
| 9 | S | 21 15 6 | 19 | 59 14 | 14 50 2 | 54 | 2 3 0 | 44 16 5 |
| 10 | S | 21 19 3 | 20 | 59 56 | 14 31 17 | 30 | 0 49 6 | N 8 17 |
| 11 | M | 21 22 59 | 22 | 0 37 | 14 11 1 | 44 | 0 N 27 | 12 31 17 |
| 12 | Tu | 21 26 56 | 23 | 1 17 | 13 51 15 | 36 | 1 39 18 | 6 17 2 |
| 13 | W | 21 30 52 | 24 | 1 55 | 13 31 29 | 5 | 2 44 22 | 38 17 2 |
| 14 | Th | 21 34 49 | 25 | 2 31 | 13 11 12 | 15 | 3 38 25 | 53 17 4 |
| 15 | F | 21 38 45 | 26 | 3 5 | 12 51 25 | 8 | 4 20 27 | 42 17 |
| 16 | S | 21 42 42 | 27 | 3 38 | 12 30 7 | 47 | 4 48 28 | 2 17 |
| 17 | S | 21 46 39 | 28 | 4 8 | 12 9 20 | 14 | 5 3 26 | 55 17 |
| 18 | M | 21 50 35 | 29 | 4 37 | 11 48 2 | 31 | 5 2 24 | 31 17 |
| 19 | Tu | 21 54 32 | 0 | 5 4 | 11 27 14 | 39 | 4 48 21 | 3 17 |
| 20 | W | 21 58 28 | 1 | 5 30 | 11 6 26 | 41 | 4 22 16 | 44 17 |
| 21 | Th | 22 2 25 | 2 | 5 54 | 10 44 8 | 36 | 3 44 11 | 48 17 |
| 22 | F | 22 6 21 | 3 | 6 16 | 10 23 20 | 28 | 2 56 6 | 29 17 |
| 23 | S | 22 10 18 | 4 | 6 36 | 10 1 2 | 16 | 2 1 0 | 57 17 |
| 24 | S | 22 14 14 | 5 | 6 56 | 9 39 14 | 4 | 1 0 4 | S 38 17 |
| 25 | M | 22 18 11 | 6 | 7 13 | 9 16 25 | 56 | 0 8 3 | 10 4 17 |
| 26 | Tu | 22 22 7 | 7 | 7 29 | 8 54 7 | 54 | 1 7 15 | 13 17 |
| 27 | W | 22 26 4 | 8 | 7 44 | 8 32 20 | 3 | 2 10 19 | 51 17 |
| 28 | Th | 22 30 1 | 9 | 7 57 | 8 9 2 | 28 | 3 7 23 | 44 17 |
| 29 | F | 22 33 57 | 10 | 8 8 | 7 46 15 | 14 | 3 57 26 | 34 17 |

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 2 N 43 | 4 S 52 | 1 N 45 | 21 S 42 | 0 N 15 | 11 S 13 | 28 30 |
| 4 | 2 45 | 5 5 | 1 36 | 21 48 | 1 1 | 9 31 | 28 20 |
| 7 | 2 48 | 5 16 | 1 26 | 21 49 | 1 50 | 8 14 | 28 11 |
| 10 | 2 50 | 5 25 | 1 16 | 21 44 | 2 39 | 7 33 | 28 1 |
| 13 | 2 53 | 5 32 | 1 5 | 21 33 | 3 16 | 7 33 | 27 52 |
| 16 | 2 55 | 5 37 | 0 54 | 21 17 | 3 39 | 8 12 | 27 42 |
| 19 | 2 57 | 5 40 | 0 43 | 20 55 | 3 42 | 9 18 | 27 33 |
| 22 | 2 59 | 5 40 | 0 33 | 20 28 | 3 25 | 10 35 | 27 23 |
| 25 | 3 1 | 5 39 | 0 22 | 19 55 | 2 54 | 11 47 | 27 14 |
| 28 | 3 3 | 5 35 | 0 13 | 19 18 | 2 17 | 12 47 | 27 4 |

| D
M | h | | ♄ | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects | | | | | |
|--------|--------|-------|-------|-------|-------|------|-------|------|-------|------|------------------|---------------|---|---|---|---|-----|
| | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | Long. | Lat. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | ° | ° | ° | ° | ° | ° |
| 1 | 23 32 | 7 30 | 18 49 | 0 38 | 0 8 | | | | | | | ☿ | | ☐ | | | |
| 2 | 23 30 | 7 44 | 19 3 | 1 49 | 1 10 | | | | | | | | ♈ | | ☐ | | |
| 3 | 23 28 | 7 58 | 19 16 | 3 0 | 2 5 | | | | | | ☉ P ☿ | | | ☐ | | ♈ | * |
| 4 | 23 25 | 8 12 | 19 29 | 4 12 | 2 52 | | | | | | | ☐ | | | | | |
| 5 | 23 23 | 8 26 | 19 41 | 6 23 | 3 30 | | | | | | | | | | | | |
| 6 | 23 21 | 8 40 | 19 53 | 6 35 | 3 59 | | | | | | ☉ ☐ ☿ | ☐ | | | | ☐ | |
| 7 | 23 19 | 8 54 | 20 5 | 7 47 | 4 17 | | | | | | | | | | | | |
| 8 | 23 18 | 9 8 | 20 15 | 7 58 | 4 24 | | | | | | ♀ * ♄ | | | | | | |
| 9 | 23 16 | 9 22 | 20 25 | 10 10 | 4 21 | | | | | | ☉ Δ ♂ | | | | | | |
| 10 | 23 15 | 9 36 | 20 35 | 11 22 | 4 7 | | | | | | | ☐ | | | | | |
| 11 | 23 13 | 9 50 | 20 43 | 12 34 | 3 43 | | | | | | | | | | | | |
| 12 | 23 12 | 10 4 | 20 51 | 13 46 | 3 8 | | | | | | ☉ Δ ♈ | ☐ | ♈ | | * | Δ | * |
| 13 | 23 11 | 10 18 | 20 59 | 14 58 | 2 16 | | | | | | | ☐ | | | | | ☐ |
| 14 | 23 10 | 10 33 | 21 6 | 16 10 | 1 34 | | | | | | | | | | | | |
| 15 | 23 9 | 10 47 | 21 13 | 17 22 | 0 36 | | | | | | ♀ Δ ☿ | ☐ | ♈ | | Δ | Δ | Δ |
| 16 | 23 8 | 11 1 | 21 19 | 18 34 | 29 33 | | | | | | | | | | | | |
| 17 | 23 7 | 11 16 | 21 24 | 19 46 | 28 28 | | | | | | ☉ ☐ ☿ | | * | | | ☐ | ♈ |
| 18 | 23 6 | 11 30 | 21 28 | 20 58 | 27 19 | | | | | | ♀ ☐ ♂ | | | | | | |
| 19 | 23 6 | 11 44 | 21 32 | 22 11 | 26 17 | | | | | | | ☐ | | | | | |
| 20 | 23 6 | 11 59 | 21 34 | 23 23 | 25 11 | | | | | | | ♈ | | * | | * | ♈ |
| 21 | 23 5 | 12 13 | 21 36 | 24 35 | 24 6 | | | | | | ♀ ☐ ☿ | | | | | | |
| 22 | 23 5 | 12 28 | 21 37 | 25 48 | 23 9 | | | | | | ♀ Δ ♈ | | Δ | ☐ | | | Δ |
| 23 | 23 5 | 12 42 | 21 38 | 27 0 | 22 16 | | | | | | | | | | | | |
| 24 | 23 D 5 | 12 57 | 21 39 | 28 12 | 21 18 | | | | | | ♀ Δ ♈ | | | | | | |
| 25 | 23 5 | 13 11 | 21 39 | 29 25 | 20 52 | | | | | | | | | Δ | | ♈ | ☐ Δ |
| 26 | 23 5 | 13 26 | 21 37 | 0 37 | 20 21 | | | | | | ☉ ☐ ♂ | Δ | ♈ | | Δ | | |
| 27 | 23 6 | 13 40 | 21 35 | 1 50 | 19 56 | | | | | | | | ♈ | | | | ☐ |
| 28 | 23 6 | 13 55 | 21 32 | 3 3 | 19 39 | | | | | | | | | | | * | * |
| 29 | 23 7 | 14 9 | 21 20 | 4 15 | 19 29 | | | | | | | ☐ | | ☐ | * | * | * |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 18 | 16 N 46 | 1 S 1 | 22 N 16 | 1 S 0 | 7 3 5 |
| 4 | 16 | 8 | 0 18 | 16 48 | 1 0 | 22 17 | 1 0 | 6 48 |
| 7 | 16 | 8 | 0 18 | 16 50 | 1 0 | 22 18 | 1 0 | 6 31 |
| 10 | 16 | 7 | 0 18 | 16 51 | 0 59 | 22 19 | 1 0 | 6 14 |
| 13 | 16 | 6 | 0 18 | 16 53 | 0 59 | 22 20 | 1 1 | 5 57 |
| 16 | 16 | 5 | 0 18 | 16 55 | 0 58 | 22 21 | 1 1 | 5 41 |
| 19 | 16 | 4 | 0 18 | 16 58 | 0 57 | 22 22 | 1 1 | 5 24 |
| 22 | 16 | 4 | 0 18 | 17 0 | 0 56 | 22 23 | 1 1 | 5 7 |
| 25 | 16 | 3 | 0 18 | 17 2 | 0 55 | 22 24 | 1 1 | 4 50 |
| 28 | 16 | 2 | 0 17 | 17 4 | 0 55 | 22 25 | 1 1 | 4 34 |
| 31 | 16 | 1 | 0 17 | 17 7 | 0 54 | 22 26 | 1 2 | 4 17 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 22 37 54 | 11 8 18 | 7 S 24 | 28 7 25 | 4 S 36 | 28 S 3 | 17 8 28 |
| 2 | S | 22 41 50 | 12 8 27 | 7 1 12 | 4 4 | 5 2 27 | 55 | 17 30 |
| 3 | M | 22 45 47 | 13 8 34 | 6 38 26 | 13 | 5 10 25 | 59 | 17 32 |
| 4 | Tu | 22 49 43 | 14 8 39 | 6 15 10 | 49 | 4 58 22 | 19 | 17 34 |
| 5 | W | 22 53 40 | 15 8 42 | 5 51 25 | 48 | 4 27 17 | 7 | 17 36 |
| 6 | Th | 22 57 36 | 16 8 44 | 5 28 11 | 0 | 3 36 10 | 46 | 17 38 |
| 7 | F | 23 1 33 | 17 8 44 | 5 5 26 | 16 | 2 29 3 | 46 | 17 40 |
| 8 | S | 23 5 29 | 18 8 41 | 4 41 11 | 26 | 1 12 3 | N 25 | 17 42 |
| 9 | S | 23 9 26 | 19 8 37 | 4 18 26 | 19 | 0 N 8 10 | 18 | 17 44 |
| 10 | M | 23 13 23 | 20 8 31 | 3 55 10 | 51 | 1 26 16 | 28 | 17 46 |
| 11 | Tu | 23 17 19 | 21 8 22 | 3 31 24 | 56 | 2 37 21 | 33 | 17 48 |
| 12 | W | 23 21 16 | 22 8 11 | 3 7 8 | 35 | 3 37 25 | 19 | 17 50 |
| 13 | Th | 23 25 12 | 23 7 58 | 2 44 21 | 50 | 4 23 27 | 35 | 17 53 |
| 14 | F | 23 29 9 | 24 7 43 | 2 20 4 | 42 | 4 54 28 | 16 | 17 55 |
| 15 | S | 23 33 5 | 25 7 25 | 1 56 17 | 16 | 5 10 27 | 28 | 17 57 |
| 16 | S | 23 37 2 | 26 7 5 | 1 33 29 | 35 | 5 12 25 | 20 | 18 0 |
| 17 | M | 23 40 58 | 27 6 43 | 1 9 11 | 43 | 4 59 22 | 5 | 18 2 |
| 18 | Tu | 23 44 55 | 28 6 19 | 0 45 23 | 42 | 4 34 17 | 56 | 18 5 |
| 19 | W | 23 48 52 | 29 5 52 | 0 22 5 | 35 | 3 57 13 | 8 | 18 7 |
| 20 | Th | 23 52 48 | 0 5 23 | 0 N 2 17 | 26 | 3 10 7 | 53 | 18 10 |
| 21 | F | 23 56 45 | 1 4 52 | 0 26 29 | 15 | 2 14 2 | 21 | 18 13 |
| 22 | S | 0 0 41 | 2 4 19 | 0 49 11 | 4 | 1 13 3 | S 16 | 18 15 |
| 23 | S | 0 4 38 | 3 3 45 | 1 13 22 | 57 | 0 8 8 | 48 | 18 18 |
| 24 | M | 0 8 34 | 4 3 8 | 1 37 4 | 55 | 0 S 58 14 | 4 | 18 20 |
| 25 | Tu | 0 12 31 | 5 2 29 | 2 0 17 | 0 | 2 2 18 | 52 | 18 23 |
| 26 | W | 0 16 27 | 6 1 49 | 2 24 29 | 16 | 3 1 22 | 57 | 18 25 |
| 27 | Th | 0 20 24 | 7 1 6 | 2 47 11 | 46 | 3 53 26 | 4 | 18 28 |
| 28 | F | 0 24 21 | 8 0 22 | 3 11 24 | 33 | 4 35 27 | 55 | 18 31 |
| 29 | S | 0 28 17 | 8 59 36 | 3 34 7 | 42 | 5 3 28 | 17 | 18 34 |
| 30 | S | 0 32 14 | 9 58 49 | 3 57 21 | 13 | 5 16 26 | 59 | 18 37 |
| 31 | M | 0 36 10 | 10 57 59 | 4 21 5 | 10 | 5 11 24 | 1 | 18 40 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 N 49 | 2 S 42 | 1 S 16 | 7 S 47 | 2 S 26 | 6 S 21 | 25 r 19 |
| 4 | 2 44 | 2 20 | 1 20 | 6 26 | 2 26 | 4 30 | 25 10 |
| 7 | 2 39 | 1 58 | 1 24 | 5 4 | 2 23 | 2 28 | 25 0 |
| 10 | 2 33 | 1 37 | 1 28 | 3 40 | 2 16 | 0 17 | 24 51 |
| 13 | 2 27 | 1 18 | 1 31 | 2 15 | 2 3 | 2 N 3 | 24 41 |
| 16 | 2 19 | 1 0 | 1 33 | 0 50 | 1 46 | 4 30 | 24 31 |
| 19 | 2 10 | 0 45 | 1 34 | 0 N 36 | 1 25 | 7 4 | 24 23 |
| 22 | 2 2 | 0 31 | 1 35 | 2 2 | 1 0 | 9 42 | 24 12 |
| 25 | 1 54 | 0 20 | 1 36 | 3 28 | 0 31 | 12 20 | 24 3 |
| 28 | 1 46 | 0 12 | 1 36 | 4 53 | 0 0 | 14 56 | 23 53 |

| D
M | h | | ♂ | | ♀ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|------------------|----------------|-------|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 1 | 24 | 24 | 21 | 49 | 13 | 23 | 13 | 10 | 19 | 36 | | ☐ | △ | | △ | |
| 2 | 24 | 28 | 22 | 3 | 13 | 0 | 14 | 23 | ■ | 9 | ☉ ☿ ♂ | | | | | |
| 3 | 24 | 32 | 22 | 17 | 12 | 37 | 15 | 36 | 22 | 44 | ☿ ☽ ♀ | ■ | ☐ | ♂ | | ♂ |
| 4 | 24 | 36 | 22 | 31 | 12 | 14 | 16 | 50 | 24 | 20 | ☿ ☐ h | | | | | |
| 5 | 24 | 40 | 22 | 45 | 11 | 51 | 18 | 3 | 25 | 58 | ♂ | | ✱ | | ♂ | |

| | | | | |
|----|----|----|----|----|
| 6 | 24 | 44 | 22 | 59 |
| 7 | 24 | 48 | 23 | 12 |
| 8 | 24 | 53 | 23 | 26 |
| 9 | 24 | 58 | 23 | 40 |
| 10 | 25 | 8 | 23 | 54 |
| 11 | 25 | 8 | 24 | 8 |
| 12 | 25 | 13 | 24 | 21 |
| 13 | 25 | 18 | 24 | 35 |
| 14 | 25 | 23 | 24 | 49 |
| 15 | 25 | 28 | 25 | 2 |
| 16 | 25 | 33 | 25 | 16 |
| 17 | 25 | 38 | 25 | 29 |
| 18 | 25 | 44 | 25 | 43 |
| 19 | 25 | 49 | 25 | 56 |
| 20 | 25 | 55 | 26 | 9 |
| 1 | 26 | 1 | 26 | 22 |
| 2 | 26 | 7 | 26 | 35 |
| 3 | 26 | 12 | 26 | 48 |
| 4 | 26 | 18 | 27 | 1 |
| 5 | 26 | 24 | 27 | 14 |
| 6 | 26 | 30 | 27 | 27 |
| 7 | 26 | 36 | 27 | 40 |
| 8 | 26 | 42 | 27 | 52 |
| 9 | 26 | 48 | 28 | 5 |
| 0 | 26 | 54 | 28 | 18 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 2 N 49 | 2 S 42 | 1 S 16 | 7 S 47 | 2 S 26 | 6 S 21 | 25 r 19 |
| 4 | 2 44 | 2 20 | 1 20 | 6 26 | 2 26 | 4 30 | 25 10 |
| 7 | 2 39 | 1 58 | 1 24 | 5 4 | 2 23 | 2 28 | 25 0 |
| 10 | 2 38 | 1 37 | 1 28 | 3 40 | 2 16 | 0 17 | 24 51 |
| 13 | 2 27 | 1 18 | 1 31 | 2 15 | 2 3 | 2 N 3 | 24 41 |
| 16 | 2 19 | 1 0 | 1 33 | 0 50 | 1 46 | 4 30 | 24 31 |
| 19 | 2 10 | 0 45 | 1 34 | 0 N 36 | 1 25 | 7 4 | 24 22 |
| 22 | 2 2 | 0 31 | 1 35 | 2 2 | 1 0 | 9 42 | 24 13 |
| 25 | 1 54 | 0 20 | 1 36 | 3 28 | 0 31 | 12 20 | 24 3 |
| 28 | 1 46 | 0 12 | 1 36 | 4 58 | 0 0 | 14 56 | 23 53 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. |
|--------|-------|-------|-------|-------|-------|------------------|
| | Long. | Long. | Long. | Long. | Long. | |
| | ° | ' | ° | ' | ° | ' |
| 1 | 24 24 | 21 49 | 13 23 | 13 10 | 19 36 | |
| 2 | 24 28 | 22 9 | 13 0 | 14 23 | 21 9 | ☉ ♂ ♂ |
| 3 | 24 32 | 22 17 | 12 37 | 15 36 | 22 44 | ♀ ♂ ♄ |
| 4 | 24 36 | 22 31 | 12 14 | 16 50 | 24 20 | ♀ ☐ h |
| 5 | 24 40 | 22 45 | 11 51 | 18 3 | 25 58 | |
| 6 | 24 44 | 22 59 | 11 28 | 19 16 | 27 37 | ♀ * h |
| 7 | 24 48 | 23 12 | 11 5 | 20 80 | 29 18 | ♀ P ♀ ♂ * * |
| 8 | 24 53 | 23 26 | 10 43 | 21 43 | 1 1 | ♀ P ♂ * ☐ Δ * |
| 9 | 24 58 | 23 40 | 10 20 | 22 56 | 2 45 | * ☐ Δ * |
| 10 | 25 | | 9 67 | 24 9 | 4 31 | ♀ ♂ ♄ ☐ |
| 11 | 25 8 | 24 8 | 9 35 | 25 23 | 6 12 | ♀ ☐ h * ☐ Δ * |
| 12 | 25 13 | 24 21 | 9 13 | 26 36 | 8 6 | ☐ * Δ * |
| 13 | 25 18 | 24 35 | 8 52 | 27 49 | 9 56 | ♀ ♂ ♂ Δ ☐ * * |
| 14 | 25 23 | 24 49 | 8 31 | 29 2 | 11 48 | ☉ * h Δ ☐ * |
| 15 | 25 28 | 25 2 | 8 10 | 0 15 | 13 41 | ☉ * h Δ ☐ * |
| 16 | 25 33 | 25 16 | 7 50 | 1 29 | 15 36 | Δ ☐ ♂ ☐ ♂ ♂ |
| 17 | 25 38 | 25 29 | 7 31 | 2 42 | 17 32 | ☐ ♂ ☐ ♂ ♂ |
| 18 | 25 44 | 25 43 | 7 12 | 3 55 | 19 30 | ♄ ☐ h ☐ ♂ ♂ ♂ |
| 19 | 25 49 | 25 56 | 6 53 | 5 9 | 21 29 | ♀ ♂ ♂ ♂ Δ ☐ ♂ |
| 20 | 25 55 | 26 9 | 6 35 | 6 22 | 23 30 | ♀ ♂ ♂ ♂ ♂ Δ ☐ |
| 21 | 26 1 | 26 22 | 6 17 | 7 35 | 25 32 | ♀ * h ♂ Δ ☐ * |
| 22 | 26 7 | 26 35 | 6 0 | 8 49 | 27 | ☐ Δ * |
| 23 | 26 12 | 26 48 | 5 45 | 10 2 | 29 40 | ☐ ♂ * Δ * |
| 24 | 26 18 | 27 1 | 5 24 | 11 15 | 1 47 | Δ ☐ ♂ ☐ Δ * |
| 25 | 26 24 | 27 14 | 5 15 | 12 29 | 3 64 | Δ ☐ ♂ ☐ Δ * |
| 26 | 26 30 | 27 27 | 5 2 | 13 42 | 6 | ☉ ♂ ♀ Δ ☐ * |
| 27 | 26 36 | 27 40 | 4 49 | 14 55 | 8 10 | ☉ P ♀ ☐ Δ * |
| 28 | 26 42 | 27 52 | 4 36 | 16 9 | 10 19 | ☐ Δ * |
| 29 | 26 48 | 28 5 | 4 24 | 17 22 | 12 29 | ♀ ♂ ♄ Δ * |
| 30 | 26 54 | 28 18 | 4 13 | 18 35 | 14 40 | * * Δ * |

1875

1875

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 17 | 18 N 3 | 0 S 46 | 22 N 42 | 1 S 11 | 0 N 36 |
| 4 | 15 | 48 | 0 17 | 18 5 | 0 46 | 22 42 | 1 12 | 0 46 |
| 7 | 15 | 47 | 0 17 | 18 8 | 0 45 | 22 42 | 1 13 | 0 56 |
| 10 | 15 | 47 | 0 17 | 18 10 | 0 45 | 22 42 | 1 13 | 1 6 |
| 13 | 15 | 47 | 0 17 | 18 13 | 0 45 | 22 42 | 1 14 | 1 15 |
| 16 | 15 | 46 | 0 17 | 18 15 | 0 45 | 22 42 | 1 15 | 1 23 |
| 19 | 15 | 46 | 0 17 | 18 17 | 0 44 | 22 42 | 1 16 | 1 31 |
| 22 | 15 | 46 | 0 17 | 18 20 | 0 44 | 22 42 | 1 16 | 1 39 |
| 25 | 15 | 46 | 0 17 | 18 22 | 0 44 | 22 41 | 1 17 | 1 45 |
| 28 | 15 | 46 | 0 17 | 18 24 | 0 43 | 22 41 | 1 18 | 1 52 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 4 40 37 | 11 II 6 31 | 22 N 8 | 21 8 28 | 2 N 25 | 20 N 28 | 22 8 7 |
| 2 | M | 4 44 33 | 12 3 59 | 22 15 | 5 II 42 | 3 27 | 24 40 | 22 10 |
| 3 | Tu | 4 48 30 | 13 1 25 | 22 23 | 19 42 | 4 16 | 27 19 | 22 14 |
| 4 | W | 4 52 26 | 13 58 51 | 22 30 | 3 26 | 4 49 | 28 14 | 22 17 |
| 5 | Th | 4 56 23 | 14 56 16 | 22 37 | 16 49 | 5 5 | 27 27 | 22 20 |
| 6 | F | 5 0 19 | 15 53 40 | 22 43 | 29 50 | 5 4 | 25 10 | 22 24 |
| 7 | S | 5 4 16 | 16 51 2 | 22 49 | 12 30 | 4 49 | 21 41 | 22 27 |
| 8 | S | 5 8 13 | 17 48 24 | 22 54 | 24 52 | 4 20 | 17 20 | 22 30 |
| 9 | M | 5 12 9 | 18 45 45 | 22 59 | 6 58 | 3 40 | 12 22 | 22 34 |
| 10 | Tu | 5 16 6 | 19 43 5 | 23 4 | 18 53 | 2 51 | 7 2 | 22 37 |
| 11 | W | 5 20 20 | 20 40 23 | 23 8 | 0 43 | 1 55 | 1 29 | 22 40 |
| 12 | Th | 5 23 59 | 21 37 41 | 23 11 | 12 32 | 0 54 | 4 8 | 22 44 |
| 13 | F | 5 27 55 | 22 34 58 | 23 15 | 24 26 | 0 S 9 | 9 37 | 22 47 |
| 14 | S | 5 31 52 | 23 32 14 | 23 18 | 6 30 | 1 13 | 14 51 | 22 50 |
| 15 | S | 5 35 49 | 24 29 30 | 23 21 | 18 48 | 2 15 | 19 35 | 22 53 |
| 16 | M | 5 39 45 | 25 26 44 | 23 23 | 1 22 | 3 11 | 23 34 | 22 56 |
| 17 | Tu | 5 43 42 | 26 23 59 | 23 25 | 14 14 | 3 59 | 26 29 | 22 59 |
| 18 | W | 5 47 38 | 27 21 12 | 23 26 | 27 25 | 4 35 | 28 1 | 23 2 |
| 19 | Th | 5 51 35 | 28 18 25 | 23 27 | 10 54 | 4 57 | 27 57 | 23 5 |
| 20 | F | 5 55 31 | 29 15 38 | 23 27 | 24 37 | 5 2 | 26 10 | 23 8 |
| 21 | S | 5 59 28 | 0 12 50 | 23 28 | 8 32 | 4 50 | 22 48 | 23 11 |
| 22 | S | 6 3 24 | 1 10 3 | 23 27 | 22 34 | 4 20 | 18 6 | 23 14 |
| 23 | M | 6 7 21 | 2 7 15 | 23 27 | 6 41 | 3 35 | 12 23 | 23 16 |
| 24 | Tu | 6 11 18 | 3 4 28 | 23 25 | 20 50 | 2 36 | 6 1 | 23 19 |
| 25 | W | 6 15 14 | 4 1 40 | 23 24 | 4 56 | 1 27 | 0 N 39 | 23 22 |
| 26 | Th | 6 19 11 | 4 58 52 | 23 22 | 19 6 | 0 13 | 7 17 | 23 25 |
| 27 | F | 6 23 7 | 5 56 5 | 23 20 | 3 11 | 1 N 1 | 13 33 | 23 27 |
| 28 | S | 6 27 4 | 6 53 17 | 23 17 | 17 12 | 2 12 | 19 5 | 23 30 |
| 29 | S | 6 31 0 | 7 50 30 | 23 14 | 1 II 8 | 3 3 | 23 33 | 23 33 |
| 30 | M | 6 34 57 | 8 47 43 | 23 10 | 14 57 | 4 3 | 26 38 | 23 35 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 25 | 1 S 39 | 0 S 53 | 18 N 48 | 0 N 58 | 24 N 24 | 22 r 5 |
| 4 | 0 19 | 2 1 | 0 46 | 19 42 | 0 19 | 23 43 | 21 56 |
| 7 | 0 13 | 2 24 | 0 40 | 20 30 | 0 S 25 | 22 57 | 21 46 |
| 10 | 0 8 | 2 49 | 0 33 | 21 14 | 1 15 | 22 8 | 21 37 |
| 13 | 0 3 | 3 15 | 0 26 | 21 52 | 2 4 | 21 19 | 21 27 |
| 16 | 0 S 2 | 3 43 | 0 19 | 22 25 | 2 53 | 20 32 | 21 18 |
| 19 | 0 7 | 4 12 | 0 12 | 22 52 | 3 37 | 19 50 | 21 8 |
| 22 | 0 11 | 4 42 | 0 5 | 23 13 | 4 11 | 19 17 | 20 59 |
| 25 | 0 15 | 5 13 | 0 N 2 | 23 28 | 4 32 | 18 54 | 20 49 |
| 28 | 0 19 | 5 45 | 0 9 | 23 37 | 4 42 | 18 44 | 20 40 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|--------|-------|-------|--------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 0 36 | 4 r 15 | 5 6 | 27 41 | 2 55 | | ♈ | ♈ | | | | ♈ | |
| 2 | 0 48 | 4 24 | 5 19 | 28 55 | 3 26 | | ♈ | | | * | Δ | | |
| 3 | 0 51 | 4 34 | 5 33 | 0 8 | 3 53 | | | | | | | | |
| 4 | 0 59 | 4 43 | 5 47 | 1 22 | 4 16 | ♀ ♄ h | | ♈ | □ | □ | | | ♈ |
| 5 | 1 6 | 4 52 | 6 2 | 2 35 | 4 33 | | * | | | | | | |
| 6 | 1 14 | 5 0 | 6 17 | 3 48 | 4 46 | ☉ P h | | | | Δ | | * | |
| 7 | 1 22 | 5 9 | 6 33 | 5 2 | 4 56 | ♀ * ♄ | * | | | | * | * | |
| 8 | 1 29 | 5 18 | 6 49 | 6 15 | 5 0 | | | □ | | | | | |
| 9 | 1 37 | 5 27 | 7 6 | 7 28 | 4 R 59 | ♀ Δ ♂ | | | * | | | □ | * |
| 10 | 1 45 | 5 35 | 7 24 | 8 42 | 4 54 | | □ | Δ | | | | | |
| 11 | 1 53 | 5 43 | 7 42 | 9 56 | 4 45 | ♈ □ ♄ | | | □ | ♈ | | | □ |
| 12 | 2 0 | 5 51 | 8 0 | 11 9 | 4 32 | ♀ P ♀ | | | | | ♈ | Δ | |
| 13 | 2 8 | 5 58 | 8 18 | 12 23 | 4 15 | ☉ ♄ ♄ | Δ | | | | | | |
| 14 | 2 16 | 6 6 | 8 37 | 13 36 | 3 54 | | | | Δ | | | | Δ |
| 15 | 2 23 | 6 14 | 8 57 | 14 50 | 3 30 | | | ♈ | | | | | |
| 16 | 2 31 | 6 22 | 9 17 | 16 3 | 3 2 | | | | | Δ | | | |
| 17 | 2 39 | 6 30 | 9 38 | 17 17 | 2 32 | ♀ ♂ h | | | | | * | ♈ | |
| 18 | 2 47 | 6 37 | 9 59 | 18 30 | 2 0 | h P ♀ | ♈ | | ♈ | | | | ♈ |
| 19 | 2 55 | 6 44 | 10 20 | 19 44 | 1 27 | | | | | □ | □ | | |
| 20 | 3 2 | 6 50 | 10 42 | 20 57 | 0 52 | | | Δ | | | | | |
| 21 | 3 10 | 6 57 | 11 4 | 22 11 | 0 17 | ♀ ♂ ☉ | | | | * | | | |
| 22 | 3 18 | 7 4 | 11 27 | 23 24 | 29 42 | ♀ ♄ ♄ | | □ | | | Δ | Δ | Δ |
| 23 | 3 26 | 7 11 | 11 50 | 24 37 | 29 8 | | Δ | | Δ | | | | |
| 24 | 3 34 | 7 17 | 12 13 | 25 51 | 28 35 | | | * | | | | □ | |
| 25 | 3 41 | 7 24 | 12 36 | 27 4 | 28 5 | ☉ ♂ h | □ | | □ | ♈ | | | □ |
| 26 | 3 49 | 7 30 | 13 1 | 28 18 | 27 37 | ♀ ♂ ♀ | | | | | ♈ | | |
| 27 | 3 57 | 7 36 | 13 25 | 29 31 | 27 12 | | * | | * | | | * | * |
| 28 | 4 5 | 7 42 | 13 50 | 0 45 | 26 50 | | | ♈ | | | | | |
| 29 | 4 13 | 7 47 | 14 15 | 1 59 | 26 32 | ☉ □ ♄ | | | | * | | | |
| 30 | 4 21 | 7 53 | 14 40 | 3 12 | 26 19 | ☉ ♄ ♄ | | | | | Δ | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 17 | 18 N 42 | 0 S 40 | 22 N 31 | 1 S 28 | 2 N 17 |
| 4 | 15 | 48 | 0 17 | 18 43 | 0 40 | 22 30 | 1 29 | 2 16 |
| 7 | 15 | 49 | 0 17 | 18 43 | 0 40 | 22 29 | 1 30 | 2 13 |
| 10 | 15 | 49 | 0 17 | 18 44 | 0 40 | 22 27 | 1 30 | 2 10 |
| 13 | 15 | 50 | 0 17 | 18 45 | 0 40 | 22 26 | 1 31 | 2 6 |
| 16 | 15 | 50 | 0 17 | 18 45 | 0 40 | 22 25 | 1 32 | 2 1 |
| 19 | 15 | 51 | 0 17 | 18 46 | 0 40 | 22 23 | 1 33 | 1 56 |
| 22 | 15 | 51 | 0 17 | 18 46 | 0 40 | 22 22 | 1 34 | 1 50 |
| 25 | 15 | 52 | 0 17 | 18 46 | 0 40 | 22 21 | 1 34 | 1 44 |
| 28 | 15 | 53 | 0 17 | 18 47 | 0 40 | 22 19 | 1 35 | 1 37 |
| 31 | 15 | 53 | 0 17 | 18 47 | 0 40 | 22 18 | 1 35 | 1 30 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 8 41 7 | 9 Ω 20 25 | 17 N 56 | 16 Ω 31 | 4 N 25 | 20 N 7 | 24 43 |
| 2 | S | 8 45 3 | 10 17 53 | 17 41 | 28 53 | 3 48 | 15 26 | 24 44 |
| 3 | S | 8 49 0 | 11 15 22 | 17 25 | 11 m 3 | 3 1 | 10 13 | 24 45 |
| 4 | M | 8 52 56 | 12 12 52 | 17 9 | 23 1 | 2 6 | 4 42 | 24 47 |
| 5 | Tu | 8 56 53 | 13 10 23 | 16 53 | 4 52 | 1 6 | 0 S 55 | 24 48 |
| 6 | W | 9 0 50 | 14 7 54 | 16 36 | 16 39 | 0 4 | 6 30 | 24 49 |
| 7 | Th | 9 4 46 | 15 5 27 | 16 19 | 28 27 | 0 S 59 | 11 51 | 24 50 |
| 8 | F | 9 8 43 | 16 3 0 | 16 2 | 10 m 21 | 2 0 | 16 50 | 24 52 |
| 9 | S | 9 12 39 | 17 0 34 | 15 45 | 22 26 | 2 56 | 21 14 | 24 53 |
| 10 | S | 9 16 36 | 17 58 9 | 15 28 | 4 47 | 3 46 | 24 49 | 24 54 |
| 11 | M | 9 20 32 | 18 55 45 | 15 10 | 17 29 | 4 26 | 27 17 | 24 55 |
| 12 | Tu | 9 24 29 | 19 53 21 | 14 52 | 0 w 36 | 4 53 | 28 21 | 24 56 |
| 13 | W | 9 28 25 | 20 50 59 | 14 33 | 14 10 | 5 6 | 27 46 | 24 57 |
| 14 | Th | 9 32 22 | 21 48 38 | 14 15 | 28 10 | 5 0 | 25 27 | 24 58 |
| 15 | F | 9 36 19 | 22 46 19 | 13 56 | 12 m 33 | 4 36 | 21 28 | 24 59 |
| 16 | S | 9 40 15 | 23 44 0 | 13 37 | 27 14 | 3 53 | 16 5 | 24 59 |
| 17 | S | 9 44 12 | 24 41 43 | 13 18 | 12 x 5 | 2 54 | 9 43 | 24 59 |
| 18 | M | 9 48 8 | 25 39 27 | 12 59 | 26 57 | 1 43 | 2 48 | 25 0 |
| 19 | Tu | 9 52 5 | 26 37 13 | 12 39 | 11 r 43 | 0 26 | 4 N 15 | 25 0 |
| 20 | W | 9 56 1 | 27 35 0 | 12 19 | 26 17 | 0 N 53 | 10 59 | 25 0 |
| 21 | Th | 9 59 58 | 28 32 50 | 11 59 | 10 36 | 2 7 | 17 1 | 25 0 |
| 22 | F | 10 3 54 | 29 30 41 | 11 39 | 24 38 | 3 11 | 22 2 | 25 1 |
| 23 | S | 10 7 51 | 0 m 28 33 | 11 19 | 8 U 21 | 4 4 | 25 43 | 25 1 |
| 24 | S | 10 11 48 | 1 26 28 | 10 58 | 21 48 | 4 41 | 27 53 | 25 2 |
| 25 | M | 10 15 44 | 2 24 24 | 10 38 | 4 59 | 5 3 | 28 25 | 25 2 |
| 26 | Tu | 10 19 41 | 3 22 22 | 10 17 | 17 55 | 5 9 | 27 22 | 25 2 |
| 27 | W | 10 23 37 | 4 20 22 | 9 56 | 0 Ω 37 | 4 59 | 24 54 | 25 3 |
| 28 | Th | 10 27 34 | 5 18 24 | 9 34 | 13 8 | 4 36 | 21 17 | 25 3 |
| 29 | F | 10 31 30 | 6 16 28 | 9 13 | 25 27 | 3 59 | 16 46 | 25 4 |
| 30 | S | 10 35 27 | 7 14 33 | 8 52 | 7 m 36 | 3 13 | 11 42 | 25 4 |
| 31 | S | 10 39 23 | 8 12 40 | 8 30 | 19 36 | 2 18 | 6 14 | 25 4 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 S 55 | 12 S 36 | 1 N 15 | 18 N 14 | 1 N 11 | 21 N 12 | 18 r 52 |
| 4 | 0 58 | 13 14 | 1 18 | 17 12 | 1 30 | 20 3 | 18 43 |
| 7 | 1 0 | 13 52 | 1 21 | 16 6 | 1 41 | 18 33 | 18 33 |
| 10 | 1 2 | 14 29 | 1 23 | 14 56 | 1 46 | 16 46 | 18 24 |
| 13 | 1 4 | 15 7 | 1 24 | 13 42 | 1 44 | 14 48 | 18 14 |
| 16 | 1 6 | 15 44 | 1 25 | 12 25 | 1 37 | 12 40 | 18 5 |
| 19 | 1 8 | 16 20 | 1 26 | 11 5 | 1 26 | 10 28 | 17 55 |
| 22 | 1 10 | 16 56 | 1 26 | 9 42 | 1 10 | 8 12 | 17 46 |
| 25 | 1 12 | 17 32 | 1 25 | 8 16 | 0 52 | 5 56 | 17 36 |
| 28 | 1 14 | 18 6 | 1 24 | 6 49 | 0 32 | 3 40 | 17 27 |
| 31 | 1 16 | 18 40 | 1 22 | 5 20 | 0 10 | 1 26 | 17 17 |

| D
M | h | ♄ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|--------|---------|-------|--------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 8 24 | 9 r 10 | 0 m 42 | 12 36 | 0 36 | ☉ Δ ♄ | | | | | | ♊ |
| 2 | 8 31 | 9 R 10 | 1 16 13 | 50 | 2 39 | | | ☐ | | | * | |
| 3 | 8 38 | 9 9 | 1 51 15 | 4 | 4 43 | | | | * | | | |
| 4 | 8 45 | 9 8 | 2 25 16 | 18 | 6 47 | | | Δ | | | | |
| 5 | 8 52 | 9 6 | 3 0 17 | 32 | 8 52 | ♀ Δ ♄ | | | ☐ | ♈ | | * |
| 6 | 8 59 | 9 5 | 3 35 18 | 46 | 10 56 | | * | | | | | * |
| 7 | 9 6 | 9 3 | 4 10 20 | 1 | 13 0 | ♄ ☐ h | | | | | | * |
| 8 | 9 13 | 9 1 | 4 45 21 | 15 | 15 4 | | | | Δ | | ♊ | ☐ |
| 9 | 9 19 | 8 59 | 5 20 22 | 29 | 17 7 | ☉ ♂ ♀ | ☐ | ♈ | | | ♊ | ☐ |
| 10 | 9 26 | 8 56 | 5 56 23 | 43 | 19 8 | ♀ ☐ ♄ | | | | Δ | | |
| 11 | 9 33 | 8 54 | 6 31 24 | 57 | 21 9 | ♀ ☐ ☿ | Δ | | | | | Δ |
| 12 | 9 39 | 8 51 | 7 6 26 | 11 | 23 8 | ♀ ☐ ♄ | | | | | | Δ |
| 13 | 9 46 | 8 48 | 7 42 27 | 25 | 25 6 | ♀ ☐ ☿ | | | ♈ | ☐ | * | |
| 14 | 9 52 | 8 45 | 8 18 28 | 39 | 27 3 | | | Δ | | | * | |
| 15 | 9 59 | 8 42 | 8 54 29 | 53 | 28 59 | h ∠ ☿ | | | | * | ☐ | |
| 16 | 10 5 | 8 38 | 9 31 | 1 m 7 | 0 m 54 | ♀ ♂ ♀ | ♈ | ☐ | | | ♈ | ♈ |
| 17 | 10 12 | 8 35 | 10 7 | 2 21 | 2 47 | ☉ ☐ ☿ | | | Δ | | Δ | |
| 18 | 10 18 | 8 31 | 10 44 | 3 35 | 4 39 | ☉ ∠ h | | * | | | | |
| 19 | 10 24 | 8 27 | 11 21 | 4 49 | 6 29 | | | | ☐ | ♊ | | |
| 20 | 10 30 | 8 23 | 11 58 | 6 4 | 8 18 | | Δ | | | | | |
| 21 | 10 36 | 8 18 | 12 36 | 7 19 | 10 5 | ♀ * h | | | * | | ♈ | Δ |
| 22 | 10 42 | 8 14 | 13 14 | 8 33 | 11 51 | | ☐ | ♊ | | | | Δ |
| 23 | 10 48 | 8 9 | 13 51 | 9 47 | 13 36 | ♀ * ♂ | | | | * | | ☐ |
| 24 | 10 54 | 8 4 | 14 28 | 11 1 | 15 20 | ♀ * h | | | | | | ☐ |
| 25 | 10 59 | 7 59 | 15 6 | 12 16 | 17 2 | | * | | ♊ | ☐ | | |
| 26 | 11 5 | 7 54 | 15 44 | 13 30 | 18 43 | | | | | | Δ | * |
| 27 | 11 11 | 7 49 | 16 22 | 14 44 | 20 23 | | | * | | | | * |
| 28 | 11 17 | 7 43 | 17 0 | 15 58 | 20 1 | | | | | Δ | ☐ | |
| 29 | 11 23 | 7 37 | 17 38 | 17 12 | 23 38 | | | ☐ | | | | |
| 30 | 11 28 | 7 32 | 18 17 | 18 27 | 25 14 | ☿ Δ ♀ | ♊ | | * | | | |
| 31 | 11 34 | 7 26 | 18 56 | 19 41 | 26 48 | ♀ P ♄ | ♊ | Δ | | | * | ♊ |

AUGUST XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 17 | 18 N 42 | 0 S 40 | 22 N 31 | 1 S 28 | 2 N 17 |
| 4 | 15 | 48 | 0 17 | 18 43 | 0 40 | 22 30 | 1 29 | 2 16 |
| 7 | 15 | 49 | 0 17 | 18 43 | 0 40 | 22 29 | 1 30 | 2 13 |
| 10 | 15 | 49 | 0 17 | 18 44 | 0 40 | 22 27 | 1 30 | 2 10 |
| 13 | 15 | 50 | 0 17 | 18 45 | 0 40 | 22 26 | 1 31 | 2 6 |
| 16 | 15 | 50 | 0 17 | 18 45 | 0 40 | 22 25 | 1 32 | 2 1 |
| 19 | 15 | 51 | 0 17 | 18 46 | 0 40 | 22 23 | 1 33 | 1 56 |
| 22 | 15 | 51 | 0 17 | 18 46 | 0 40 | 22 22 | 1 34 | 1 50 |
| 25 | 15 | 52 | 0 17 | 18 46 | 0 40 | 22 21 | 1 34 | 1 44 |
| 28 | 15 | 53 | 0 17 | 18 47 | 0 40 | 22 19 | 1 35 | 1 37 |
| 31 | 15 | 53 | 0 17 | 18 47 | 0 40 | 22 18 | 1 35 | 1 32 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | F | 8 41 7 | 9 Ω 20 25 | 17 N 56 | 16 Ω 31 | 4 N 25 | 20 N 7 | 24 43 |
| 2 | S | 8 45 3 | 10 17 53 | 17 41 | 28 53 | 3 48 | 15 26 | 24 44 |
| 3 | S | 8 49 0 | 11 15 22 | 17 25 | 11 m 3 | 3 1 | 10 13 | 24 45 |
| 4 | M | 8 52 56 | 12 12 52 | 17 9 | 23 1 | 2 6 | 4 42 | 24 46 |
| 5 | Tu | 8 56 53 | 13 10 23 | 16 53 | 4 ♄ 52 | 1 6 | 0 S 55 | 24 47 |
| 6 | W | 9 0 50 | 14 7 54 | 16 36 | 16 39 | 0 4 | 6 30 | 24 48 |
| 7 | Th | 9 4 46 | 15 5 27 | 16 19 | 28 27 | 0 S 59 | 11 51 | 24 49 |
| 8 | F | 9 8 43 | 16 3 0 | 16 2 | 10 m 21 | 2 0 | 16 50 | 24 50 |
| 9 | S | 9 12 39 | 17 0 34 | 15 45 | 22 26 | 2 56 | 21 14 | 24 51 |
| 10 | S | 9 16 36 | 17 58 9 | 15 28 | 4 ♄ 47 | 3 46 | 24 49 | 24 52 |
| 11 | M | 9 20 32 | 18 55 45 | 15 10 | 17 29 | 4 26 | 27 17 | 24 53 |
| 12 | Tu | 9 24 29 | 19 53 21 | 14 52 | 0 w 36 | 4 53 | 28 21 | 24 54 |
| 13 | W | 9 28 25 | 20 50 59 | 14 33 | 14 10 | 5 6 | 27 46 | 24 55 |
| 14 | Th | 9 32 22 | 21 48 38 | 14 15 | 28 10 | 5 0 | 25 27 | 24 56 |
| 15 | F | 9 36 19 | 22 46 19 | 13 56 | 12 m 33 | 4 36 | 21 28 | 24 57 |
| 16 | S | 9 40 15 | 23 44 0 | 13 37 | 27 14 | 3 53 | 16 5 | 24 58 |
| 17 | S | 9 44 12 | 24 41 43 | 13 18 | 12 m 5 | 2 54 | 9 43 | 24 59 |
| 18 | M | 9 48 8 | 25 39 27 | 12 59 | 26 57 | 1 43 | 2 48 | 25 0 |
| 19 | Tu | 9 52 5 | 26 37 13 | 12 39 | 11 r 43 | 0 26 | 4 N 15 | 25 1 |
| 20 | W | 9 56 1 | 27 35 0 | 12 19 | 26 17 | 0 N 53 | 10 59 | 25 2 |
| 21 | Th | 9 59 58 | 28 32 50 | 11 59 | 10 s 36 | 2 7 | 17 1 | 25 3 |
| 22 | F | 10 3 54 | 29 30 41 | 11 39 | 24 38 | 3 11 | 22 2 | 25 4 |
| 23 | S | 10 7 51 | 0 m 28 33 | 11 19 | 8 U 21 | 4 4 | 25 43 | 25 5 |
| 24 | S | 10 11 48 | 1 26 28 | 10 58 | 21 48 | 4 41 | 27 53 | 25 6 |
| 25 | M | 10 15 44 | 2 24 24 | 10 38 | 4 ♄ 59 | 5 3 | 28 25 | 25 7 |
| 26 | Tu | 10 19 41 | 3 22 22 | 10 17 | 17 55 | 5 9 | 27 22 | 25 8 |
| 27 | W | 10 23 37 | 4 20 22 | 9 56 | 0 Ω 37 | 4 59 | 24 54 | 25 9 |
| 28 | Th | 10 27 34 | 5 18 24 | 9 34 | 13 8 | 4 36 | 21 17 | 25 10 |
| 29 | F | 10 31 30 | 6 16 28 | 9 13 | 25 27 | 3 59 | 16 48 | 25 11 |
| 30 | S | 10 35 27 | 7 14 33 | 8 52 | 7 m 36 | 3 13 | 11 42 | 25 12 |
| 31 | S | 10 39 23 | 8 12 40 | 8 30 | 19 36 | 2 18 | 6 14 | 25 13 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 8 55 | 12 8 36 | 1 N 15 | 18 N 14 | 1 N 11 | 21 N 12 | 18 r 52 |
| 4 | 0 58 | 13 14 | 1 18 | 17 12 | 1 30 | 20 3 | 18 43 |
| 7 | 1 0 | 13 52 | 1 21 | 16 6 | 1 41 | 18 33 | 18 33 |
| 10 | 1 2 | 14 29 | 1 23 | 14 56 | 1 46 | 16 46 | 18 24 |
| 13 | 1 4 | 15 7 | 1 24 | 13 42 | 1 44 | 14 48 | 18 14 |
| 16 | 1 6 | 15 44 | 1 25 | 12 25 | 1 37 | 12 40 | 18 5 |
| 19 | 1 8 | 16 20 | 1 26 | 11 5 | 1 26 | 10 23 | 17 55 |
| 22 | 1 10 | 16 56 | 1 26 | 9 42 | 1 10 | 8 12 | 17 46 |
| 25 | 1 12 | 17 32 | 1 25 | 8 16 | 0 52 | 6 56 | 17 36 |
| 28 | 1 14 | 18 6 | 1 24 | 6 49 | 0 32 | 3 40 | 17 27 |
| 31 | 1 16 | 18 40 | 1 22 | 5 20 | 0 10 | 1 26 | 17 17 |

| D
M | h
Long. | ♄
Long. | ♂
Long. | ♀
Long. | ♂
Long. | Mutual
Aspts. | Lu
☉ h |
|--------|------------|------------|------------|------------|------------|------------------|-----------|
| 1 | 8 24 | 9 r 10 | 0 m 42 | 12 2 36 | 0 2 36 | ☉ Δ ♄ | |
| 2 | 8 31 | 9 h 10 | 1 16 13 | 50 2 39 | | | ☉ |
| 3 | 8 38 | 9 9 | 1 51 15 | 4 4 43 | | | ☉ |
| 4 | 8 45 | 9 8 | 2 25 16 | 18 6 47 | | | ☉ |
| 5 | 8 52 | 9 6 | 3 0 17 | 32 8 52 | ♂ Δ ♄ | | |
| 6 | 8 59 | 9 5 | 3 35 18 | 46 10 56 | | | ☉ |
| 7 | 9 6 | 9 3 | 4 10 20 | 1 13 0 | ♄ ☐ h | | |
| 8 | 9 13 | 9 1 | 4 45 21 | 15 15 4 | | | |
| 9 | 9 19 | 8 59 | 5 20 22 | 29 17 7 | ☉ ☽ ♀ | ☐ | |
| 10 | 9 26 | 8 56 | 5 56 23 | 43 19 8 | ♀ ☐ ♄ | | |
| 11 | 9 33 | 8 54 | 6 31 24 | 57 21 9 | ♀ ☐ ☽ | Δ | |
| 12 | 9 39 | 8 51 | 7 6 26 | 11 23 8 | ♀ ☐ ♄ | | |
| 13 | 9 46 | 8 48 | 7 42 27 | 25 25 6 | ♀ ☐ ☽ | | |
| 14 | 9 52 | 8 45 | 8 18 28 | 39 27 9 | | | ☉ |
| 15 | 9 59 | 8 42 | 8 54 29 | 53 28 59 | h ☐ ☽ | | |
| 16 | 10 5 | 8 38 | 9 31 | 1 m 7 | 0 m 54 | ♀ ☽ ♀ | ☽ ☐ |
| 17 | 10 12 | 8 35 | 10 7 | 2 21 2 | 47 | ☉ ☐ ☽ | ☽ Δ |
| 18 | 10 18 | 8 31 | 10 41 | 3 35 4 | 39 | ☉ ☐ h | ☽ Δ |
| 19 | 10 24 | 8 27 | 11 21 | 4 49 6 | 29 | | ☐ ☽ |
| 20 | 10 30 | 8 23 | 11 58 | 6 4 8 | 18 | | ☐ |
| 21 | 10 36 | 8 18 | 12 36 | 7 19 10 | 5 | ♀ * h | ☐ |
| 22 | 10 42 | 8 14 | 13 14 | 8 33 11 | 51 | | ☐ ☽ |
| 23 | 10 48 | 8 9 | 13 51 | 9 47 13 | 36 | ♀ * ☽ | ☐ |
| 24 | 10 54 | 8 4 | 14 28 | 11 1 15 | 20 | ♀ * h | ☐ |
| 25 | 10 59 | 7 59 | 15 6 | 12 16 17 | 2 | | * ☐ |
| 26 | 11 5 | 7 54 | 15 41 | 13 30 18 | 43 | | |
| 27 | 11 11 | 7 49 | 16 22 | 14 44 20 | 23 | | * ☐ |
| 28 | 11 17 | 7 43 | 17 0 | 15 58 20 | 1 | | ☐ |
| 29 | 11 23 | 7 37 | 17 38 | 17 12 23 | 38 | | ☐ |
| 30 | 11 28 | 7 32 | 18 17 | 18 27 25 | 14 | ☽ Δ ♀ | ☐ * |
| 31 | 11 34 | 7 26 | 18 56 | 19 41 26 | 48 | ♀ P ♄ | ☐ Δ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 08 17 | 18 N47 | 08 40 | 22 N18 | 18 35 | 1 N27 |
| 4 | 15 | 54 | 0 17 | 18 46 | 0 40 | 22 16 | 1 36 | 1 19 |
| 7 | 15 | 54 | 0 17 | 18 46 | 0 39 | 22 15 | 1 36 | 1 10 |
| 10 | 15 | 55 | 0 17 | 18 46 | 0 39 | 22 14 | 1 36 | 1 1 |
| 13 | 15 | 56 | 0 17 | 18 45 | 0 39 | 22 13 | 1 37 | 0 32 |
| 16 | 15 | 56 | 0 17 | 18 45 | 0 39 | 22 12 | 1 37 | 0 43 |
| 19 | 15 | 57 | 0 17 | 18 44 | 0 39 | 22 10 | 1 38 | 0 34 |
| 22 | 15 | 58 | 0 17 | 18 43 | 0 39 | 22 9 | 1 38 | 0 24 |
| 25 | 15 | 59 | 0 17 | 18 42 | 0 39 | 22 8 | 1 38 | 0 14 |
| 28 | 16 | 0 | 0 17 | 18 42 | 0 39 | 22 8 | 1 38 | 0 5 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 10 43 20 | 9 ^m 10 49 | 8 N 8 | 1 ^h 29 | 1 N 17 | 0 N 35 | 25 4 |
| 2 | Tu | 10 47 17 | 10 8 59 | 7 46 | 13 17 | 0 13 | 5 S 2 | 25 4 |
| 3 | W | 10 51 13 | 11 7 11 | 7 24 | 25 2 | 0 S 51 | 10 29 | 25 4 |
| 4 | Th | 10 55 10 | 12 5 24 | 7 2 | 6 ^m 50 | 1 53 | 15 35 | 25 4 |
| 5 | F | 10 59 6 | 13 3 39 | 6 40 | 18 43 | 2 51 | 20 9 | 25 3 |
| 6 | S | 11 3 3 | 14 1 55 | 6 17 | 0 ^h 47 | 3 42 | 23 57 | 25 3 |
| 7 | S | 11 6 59 | 15 0 13 | 5 55 | 13 7 | 4 24 | 26 46 | 25 3 |
| 8 | M | 11 10 56 | 15 58 33 | 5 32 | 25 46 | 4 55 | 28 19 | 25 2 |
| 9 | Tu | 11 14 52 | 16 56 54 | 5 9 | 8 ^m 49 | 5 12 | 28 21 | 25 2 |
| 10 | W | 11 18 49 | 17 55 16 | 4 47 | 23 20 | 5 12 | 26 44 | 25 1 |
| 11 | Th | 11 22 46 | 18 53 40 | 4 24 | 6 ^m 18 | 4 54 | 23 27 | 25 1 |
| 12 | F | 11 26 42 | 19 52 6 | 4 1 | 20 43 | 4 17 | 18 40 | 25 1 |
| 13 | S | 11 30 39 | 20 50 34 | 3 38 | 5 ^m 31 | 3 23 | 12 38 | 25 1 |
| 14 | S | 11 34 35 | 21 49 4 | 3 15 | 20 34 | 2 13 | 5 47 | 24 5 |
| 15 | M | 11 38 32 | 22 47 35 | 2 51 | 5 ^m 43 | 0 54 | 1 N 27 | 24 56 |
| 16 | Tu | 11 42 28 | 23 46 8 | 2 29 | 20 49 | 0 N 29 | 8 35 | 24 5 |
| 17 | W | 11 46 25 | 24 44 43 | 2 5 | 5 ^m 43 | 1 49 | 15 10 | 24 5 |
| 18 | Th | 11 50 21 | 25 43 21 | 1 42 | 20 19 | 3 1 | 20 45 | 24 5 |
| 19 | F | 11 54 18 | 26 42 1 | 1 19 | 4 ^m 33 | 3 59 | 24 59 | 24 5 |
| 20 | S | 11 58 14 | 27 40 43 | 0 55 | 18 24 | 4 42 | 27 38 | 24 5 |
| 21 | S | 12 2 11 | 28 39 27 | 0 32 | 1 ^h 51 | 5 7 | 28 34 | 24 5 |
| 22 | M | 12 6 8 | 29 38 13 | 0 9 | 14 56 | 5 16 | 27 52 | 24 5 |
| 23 | Tu | 12 10 4 | 0 ^h 37 2 | 0 S 15 | 27 42 | 5 9 | 25 41 | 24 5 |
| 24 | W | 12 14 1 | 1 35 53 | 0 38 | 10 ^m 12 | 4 48 | 22 19 | 24 4 |
| 25 | Th | 12 17 57 | 2 34 46 | 1 22 | 28 28 | 4 13 | 18 1 | 24 4 |
| 26 | F | 12 21 54 | 3 33 41 | 1 25 | 4 ^m 34 | 3 28 | 13 4 | 24 4 |
| 27 | S | 12 25 50 | 4 32 39 | 1 48 | 16 32 | 2 33 | 7 40 | 24 4 |
| 28 | S | 12 29 47 | 5 31 39 | 2 12 | 28 24 | 1 33 | 2 3 | 24 4 |
| 29 | M | 12 33 42 | 6 30 41 | 2 35 | 10 ^h 12 | 0 29 | 3 S 36 | 24 4 |
| 30 | Tu | 12 37 40 | 7 29 44 | 2 59 | 21 59 | 0 S 37 | 9 8 | 24 4 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 18 16 | 18 51 | 1 N 21 | 4 N 50 | 0 N 3 | 0 N 42 | 17 r 18 |
| 4 | 1 17 | 19 24 | 1 18 | 3 20 | 0 S 21 | 1 S 29 | 17 4 |
| 7 | 1 18 | 19 56 | 1 15 | 1 48 | 0 45 | 3 34 | 16 54 |
| 10 | 1 19 | 20 27 | 1 11 | 0 16 | 1 10 | 5 35 | 16 45 |
| 13 | 1 20 | 20 56 | 1 7 | 1 S 17 | 1 34 | 7 30 | 16 35 |
| 16 | 1 21 | 21 24 | 1 2 | 2 49 | 1 58 | 9 18 | 16 26 |
| 19 | 1 22 | 21 51 | 0 57 | 4 21 | 2 21 | 10 58 | 16 16 |
| 22 | 1 23 | 22 16 | 0 51 | 5 52 | 2 43 | 12 28 | 16 7 |
| 25 | 1 24 | 22 40 | 0 45 | 7 23 | 3 2 | 13 46 | 15 57 |
| 28 | 1 25 | 23 2 | 0 39 | 8 52 | 3 17 | 14 49 | 15 48 |

| D
M | h | | M | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|----------------|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☉ | ☽ | ☾ | ♂ | ♀ | ♂ |
| 1 | 11 | 39 | 7 | 19 | 19 | 35 | 20 | 55 | 28 | 21 | ♂ P M | | | | ♂ | | ♂ |
| 2 | 11 | 44 | 7 | 13 | 20 | 14 | 22 | 10 | 29 | 53 | | | | ☐ | | | |
| 3 | 11 | 49 | 7 | 7 | 20 | 53 | 23 | 24 | 1 | 25 | | | | ☐ | | | |
| 4 | 11 | 54 | 7 | 0 | 21 | 32 | 24 | 39 | 2 | 55 | ☉ * h | | | ☐ | | | |
| 5 | 11 | 59 | 6 | 53 | 22 | 11 | 25 | 53 | 4 | 23 | | * | | | | ♂ | |
| 6 | 12 | 4 | 6 | 47 | 22 | 61 | 27 | 7 | 5 | 50 | | | ♂ | | ☐ | | * |
| 7 | 12 | 9 | 6 | 40 | 23 | 81 | 28 | 22 | 7 | 16 | ♀ ♂ M | ☐ | | | ☐ | | * |
| 8 | 12 | 14 | 6 | 33 | 24 | 11 | 29 | 36 | 8 | 40 | ♀ P M | | | | | ☐ | |
| 9 | 12 | 18 | 6 | 26 | 24 | 51 | 0 | 50 | 10 | 3 | ♂ ♂ M | | | ♂ | ☐ | | ☐ |
| 10 | 12 | 23 | 6 | 19 | 25 | 31 | 2 | 5 | 11 | 24 | | ☐ | ☐ | | | * | |
| 11 | 12 | 27 | 6 | 12 | 26 | 11 | 3 | 19 | 12 | 45 | ♀ ☐ h | | | | * | | ☐ |
| 12 | 12 | 32 | 6 | 5 | 26 | 51 | 4 | 33 | 14 | 5 | | | ☐ | | | ☐ | |
| 13 | 12 | 36 | 5 | 57 | 27 | 31 | 5 | 47 | 15 | 23 | ♀ ♂ M | | | ☐ | | | |
| 14 | 12 | 40 | 5 | 50 | 28 | 11 | 7 | 1 | 16 | 39 | | ♂ | * | | | | |
| 15 | 12 | 45 | 5 | 42 | 28 | 52 | 8 | 16 | 17 | 54 | | | | ☐ | ♂ | ☐ | ♂ |
| 16 | 12 | 49 | 5 | 34 | 29 | 33 | 9 | 30 | 19 | 6 | ♀ ☐ M | | | | | | ♂ |
| 17 | 12 | 53 | 5 | 26 | 0 | 14 | 10 | 44 | 20 | 17 | ☉ ☐ M | | | * | | | |
| 18 | 12 | 57 | 5 | 18 | 0 | 55 | 11 | 58 | 21 | 26 | | ☐ | ♂ | | | | |
| 19 | 13 | 1 | 5 | 10 | 1 | 36 | 13 | 13 | 22 | 33 | ♀ ☐ h | | | | * | ♂ | |
| 20 | 13 | 4 | 5 | 2 | 2 | 17 | 14 | 27 | 23 | 38 | | | | | | ☐ | ☐ |
| 21 | 13 | 8 | 4 | 54 | 3 | 58 | 15 | 41 | 24 | 41 | ☉ P M | ☐ | | | ☐ | | |
| 22 | 13 | 12 | 4 | 46 | 3 | 40 | 16 | 56 | 25 | 42 | | | | ♂ | | ☐ | |
| 23 | 13 | 16 | 4 | 38 | 4 | 21 | 18 | 10 | 26 | 39 | ♂ ☐ M | * | * | | | | ☐ |
| 24 | 13 | 19 | 4 | 30 | 5 | 2 | 19 | 24 | 27 | 35 | | | | | ☐ | ☐ | |
| 25 | 13 | 23 | 4 | 22 | 5 | 44 | 20 | 39 | 28 | 28 | ♀ ☐ h | | ☐ | | | | * |
| 26 | 13 | 26 | 4 | 14 | 6 | 26 | 21 | 53 | 29 | 17 | | | | | | | |
| 27 | 13 | 29 | 4 | 6 | 7 | 8 | 23 | 7 | 0 | 3 | ☉ ♂ M | | | | | | |
| 28 | 13 | 32 | 3 | 58 | 7 | 51 | 24 | 22 | 0 | 44 | | | ☐ | | | | |
| 29 | 13 | 34 | 3 | 50 | 8 | 33 | 25 | 36 | 1 | 21 | | ♂ | | | | | |
| 30 | 13 | 37 | 3 | 42 | 9 | 15 | 26 | 50 | 1 | 54 | | | | | | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 17 | 18 N 40 | 0 S 39 | 22 N 7 | 1 S 38 | 0 S 5 |
| 4 | 16 | 2 | 0 17 | 18 39 | 0 39 | 22 6 | 1 38 | 0 14 |
| 7 | 16 | 3 | 0 17 | 18 38 | 0 39 | 22 5 | 1 38 | 0 23 |
| 10 | 16 | 4 | 0 17 | 18 37 | 0 39 | 22 5 | 1 37 | 0 32 |
| 13 | 16 | 5 | 0 17 | 18 35 | 0 39 | 22 4 | 1 37 | 0 41 |
| 16 | 16 | 5 | 0 17 | 18 34 | 0 38 | 22 4 | 1 37 | 0 4 |
| 19 | 16 | 6 | 0 17 | 18 32 | 0 38 | 22 4 | 1 36 | 0 56 |
| 22 | 16 | 7 | 0 17 | 18 31 | 0 38 | 22 4 | 1 36 | 1 3 |
| 25 | 16 | 8 | 0 17 | 18 29 | 0 38 | 22 4 | 1 35 | 1 12 |
| 28 | 16 | 9 | 0 17 | 18 27 | 0 38 | 22 4 | 1 35 | 1 11 |
| 31 | 16 | 9 | 0 17 | 18 26 | 0 38 | 22 4 | 1 34 | 1 21 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | W | 12 41 37 | 8 28 50 | 3 S 22 | 3 m 47 | 1 S 40 | 14 S 22 | 24 30 |
| 2 | Th | 12 45 33 | 9 27 58 | 3 45 | 15 38 | 2 40 | 19 5 | 24 30 |
| 3 | F | 12 49 30 | 10 27 8 | 4 9 | 27 35 | 3 34 | 23 6 | 24 37 |
| 4 | S | 12 53 26 | 11 26 19 | 4 32 | 9 42 | 4 18 | 26 11 | 24 35 |
| 5 | S | 12 57 23 | 12 25 38 | 4 55 | 22 2 | 4 52 | 28 5 | 24 54 |
| 6 | M | 13 1 19 | 13 24 48 | 5 18 | 4 v 39 | 5 12 | 28 35 | 24 32 |
| 7 | Tu | 13 5 16 | 14 24 5 | 5 41 | 17 37 | 5 18 | 27 33 | 24 3 |
| 8 | W | 13 9 12 | 15 23 23 | 6 4 | 0 m 59 | 5 6 | 24 56 | 24 2 |
| 9 | Th | 13 13 9 | 16 22 43 | 6 27 | 14 47 | 4 37 | 20 50 | 24 2 |
| 10 | F | 13 17 6 | 17 22 6 | 6 50 | 29 2 | 3 51 | 15 25 | 24 2 |
| 11 | S | 13 21 2 | 18 21 30 | 7 12 | 13 x 40 | 2 48 | 9 0 | 24 2 |
| 12 | S | 13 24 59 | 19 20 56 | 7 35 | 28 39 | 1 32 | 1 57 | 24 2 |
| 13 | M | 13 28 55 | 20 20 23 | 7 57 | 13 r 49 | 0 9 | 5 N 19 | 24 12 |
| 14 | Tu | 13 32 52 | 21 19 53 | 8 20 | 29 3 | 1 N 15 | 12 19 | 24 12 |
| 15 | W | 13 36 48 | 22 19 25 | 8 42 | 14 10 | 2 38 | 18 32 | 24 14 |
| 16 | Th | 13 40 45 | 23 18 59 | 9 4 | 29 1 | 3 39 | 23 31 | 24 12 |
| 17 | F | 13 44 41 | 24 18 35 | 9 26 | 13 30 | 4 30 | 26 54 | 24 10 |
| 18 | S | 13 48 38 | 25 18 14 | 9 48 | 27 33 | 5 2 | 28 28 | 24 8 |
| 19 | S | 13 52 35 | 26 17 54 | 10 10 | 11 8 | 5 17 | 28 15 | 24 6 |
| 20 | M | 13 56 31 | 27 17 37 | 10 31 | 24 16 | 5 14 | 26 15 | 24 5 |
| 21 | Tu | 14 0 28 | 28 17 22 | 10 53 | 7 1 | 4 55 | 23 17 | 24 2 |
| 22 | W | 14 4 24 | 29 17 10 | 11 14 | 19 26 | 4 23 | 19 10 | 24 0 |
| 23 | Th | 14 8 21 | 0 m 16 59 | 11 35 | 1 m 36 | 3 40 | 14 20 | 23 57 |
| 24 | F | 14 12 17 | 1 16 51 | 11 56 | 13 34 | 2 48 | 9 3 | 23 53 |
| 25 | S | 14 16 14 | 2 16 45 | 12 17 | 25 25 | 1 49 | 3 29 | 23 50 |
| 26 | S | 14 20 10 | 3 16 41 | 12 37 | 7 12 | 0 46 | 2 S 10 | 23 51 |
| 27 | M | 14 24 7 | 4 16 40 | 12 57 | 18 59 | 0 S 19 | 7 44 | 23 4 |
| 28 | Tu | 14 28 4 | 5 16 40 | 13 18 | 0 m 48 | 1 24 | 13 4 | 23 40 |
| 29 | W | 14 32 0 | 6 16 42 | 13 38 | 12 41 | 2 25 | 17 57 | 23 44 |
| 30 | Th | 14 35 57 | 7 16 46 | 13 57 | 24 40 | 3 20 | 22 11 | 23 42 |
| 31 | F | 14 39 53 | 8 16 52 | 14 17 | 6 47 | 4 6 | 25 30 | 23 30 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 18 25 | 23 S 23 | 0 N 32 | 10 S 19 | 3 S 28 | 15 S 34 | 15 r 38 |
| 4 | 1 26 | 23 41 | 0 25 | 11 44 | 3 32 | 15 55 | 15 28 |
| 7 | 1 26 | 23 58 | 0 17 | 13 6 | 3 25 | 15 46 | 15 19 |
| 10 | 1 27 | 24 12 | 0 9 | 14 26 | 3 6 | 15 0 | 15 9 |
| 13 | 1 27 | 24 25 | 0 1 | 15 43 | 2 30 | 13 33 | 14 59 |
| 16 | 1 28 | 24 36 | 0 S 7 | 16 56 | 1 40 | 11 31 | 14 50 |
| 19 | 1 28 | 24 44 | 0 15 | 18 6 | 0 39 | 9 14 | 14 40 |
| 22 | 1 28 | 24 50 | 0 24 | 19 11 | 0 N 21 | 7 12 | 14 31 |
| 25 | 1 28 | 24 54 | 0 32 | 20 11 | 1 11 | 5 53 | 14 21 |
| 28 | 1 28 | 24 55 | 0 39 | 21 7 | 1 46 | 5 26 | 14 12 |
| 31 | 1 27 | 24 54 | 0 47 | 21 58 | 2 6 | 5 48 | 14 2 |

| D
M | h | ♂ | ♀ | ♀ | Mutual
Aspts. |
|--------|---------|--------|--------|--------|------------------|
| | Long. | Long. | Long. | Long. | |
| | ° / | ° / | ° / | ° / | |
| 1 | 13 40 | 3 r 35 | 9 f 57 | 28 5 | 2 m 23 |
| 2 | 13 42 | 3 R 27 | 10 39 | 29 19 | 2 46 ☉ ☐ ♄ |
| 3 | 13 45 | 3 19 | 11 22 | 0 m 33 | 3 3 |
| 4 | 13 48 | 3 11 | 12 5 | 1 47 | 3 15 |
| 5 | 13 50 | 3 3 | 12 47 | 3 1 | 3 19 |
| 6 | 13 52 | 2 56 | 13 30 | 4 16 | 3 R 16 ☉ ☐ h |
| 7 | 13 54 | 2 48 | 14 13 | 5 30 | 3 5 ☐ ☐ ♄ |
| 8 | 13 56 | 2 40 | 14 56 | 6 44 | 2 47 ☐ ☐ ♄ |
| 9 | 13 58 | 2 32 | 15 39 | 7 58 | 2 21 ☐ ☐ ♄ |
| 10 | 14 0 | 2 25 | 16 22 | 9 13 | 1 46 ☐ ☐ ♄ |
| 11 | 14 2 | 2 17 | 17 5 | 10 27 | 1 2 ☐ ☐ ♄ |
| 12 | 14 4 | 2 10 | 17 48 | 11 41 | 0 11 ☐ ☐ ♄ |
| 13 | 14 5 | 2 3 | 18 32 | 12 55 | 29 13 ☐ ☐ ♄ |
| 14 | 14 6 | 1 55 | 19 15 | 14 10 | 28 9 ♀ ☐ h |
| 15 | 14 7 | 1 48 | 19 59 | 15 24 | 26 59 ☐ ☐ ♄ |
| 16 | 14 8 | 1 41 | 20 43 | 16 38 | 25 46 ☐ ☐ ♄ |
| 17 | 14 9 | 1 34 | 21 26 | 17 52 | 24 31 ☉ ☐ ♄ |
| 18 | 14 10 | 1 27 | 22 10 | 19 6 | 23 18 ☐ ☐ ♄ |
| 19 | 14 11 | 1 21 | 22 55 | 20 21 | 22 8 ☐ ☐ ♄ |
| 20 | 14 12 | 1 14 | 23 39 | 21 35 | 21 1 ☐ ☐ ♄ |
| 21 | 14 12 | 1 8 | 24 23 | 22 49 | 20 8 ☐ ☐ ♄ |
| 22 | 14 13 | 1 2 | 25 7 | 24 3 | 19 18 ♀ ☐ h |
| 23 | 14 13 | 0 58 | 25 51 | 25 17 | 18 32 ☐ ☐ ♄ |
| 24 | 14 14 | 0 50 | 26 35 | 26 32 | 18 4 ♀ ☐ h |
| 25 | 14 14 | 0 44 | 27 20 | 27 46 | 17 46 ☐ ☐ ♄ |
| 26 | 14 14 | 0 39 | 28 4 | 29 0 | 17 D 40 ♀ ☐ h |
| 27 | 14 14 | 0 33 | 28 49 | 0 f 14 | 17 44 ♀ ☐ h |
| 28 | 14 R 13 | 0 28 | 29 34 | 1 28 | 18 2 ☐ ☐ ♄ |
| 29 | 14 13 | 0 23 | 0 w 19 | 2 42 | 18 27 ☐ ☐ ♄ |
| 30 | 14 12 | 0 18 | 1 8 | 3 56 | 19 1 ☐ ☐ ♄ |
| 31 | 14 11 | 0 13 | 1 48 | 5 10 | 19 45 ♀ P h |

NOVEMBER XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 08 | 17 | 08 | 88 | 18 | 34 |
| 4 | 16 | 9 | 0 | 17 | 0 | 38 | 1 | 33 |
| 7 | 16 | 10 | 0 | 17 | 0 | 38 | 1 | 33 |
| 0 | 16 | 11 | 0 | 17 | 0 | 38 | 1 | 32 |
| 3 | 16 | 12 | 0 | 17 | 0 | 38 | 1 | 31 |
| 6 | 16 | 12 | 0 | 17 | 0 | 37 | 1 | 30 |
| 9 | 16 | 13 | 0 | 17 | 0 | 37 | 1 | 30 |
| 2 | 16 | 13 | 0 | 17 | 0 | 37 | 1 | 29 |
| 5 | 16 | 14 | 0 | 17 | 0 | 37 | 1 | 28 |
| 8 | 16 | 14 | 0 | 17 | 0 | 37 | 1 | 27 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | ☉
Declin. | | ☽
Long. | | ☽
Lat. | | ☽
Declin. | | ☽
Long. | |
|--------|--------|-------------------|----|----|------------|------|--------------|----|------------|----|-----------|---|--------------|------|------------|----|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | S | 14 | 43 | 50 | 9 | m17 | 0 | 14 | S 86 | 19 | f 4 | 4 | S 42 | 27 | S 42 | 23 |
| 2 | S | 14 | 47 | 46 | 10 | 17 | 9 | 14 | 55 | 1 | w 33 | 5 | 5 28 | 32 | 23 | 35 |
| 3 | M | 14 | 51 | 43 | 11 | 17 | 20 | 15 | 14 | 14 | 15 | 5 | 14 27 | 54 | 23 | 32 |
| 4 | Tu | 14 | 55 | 39 | 12 | 17 | 32 | 15 | 32 | 27 | 13 | 5 | 7 25 | 45 | 23 | 30 |
| 5 | W | 14 | 59 | 36 | 13 | 17 | 46 | 15 | 51 | 10 | m 30 | 4 | 44 22 | 10 | 23 | 28 |
| 6 | Th | 15 | 3 | 33 | 14 | 18 | 1 | 16 | 9 | 24 | 7 | 4 | 4 17 | 20 | 23 | 25 |
| 7 | F | 15 | 7 | 29 | 15 | 18 | 18 | 16 | 26 | 8 | x 6 | 3 | 9 11 | 28 | 23 | 23 |
| 8 | S | 15 | 11 | 26 | 16 | 18 | 36 | 16 | 44 | 22 | 27 | 2 | 1 4 | 51 | 23 | 20 |
| 9 | S | 15 | 15 | 22 | 17 | 18 | 56 | 17 | 1 | 7 | r 7 | 0 | 44 2 | N 9 | 23 | 18 |
| 0 | M | 15 | 19 | 19 | 18 | 19 | 17 | 17 | 18 | 22 | 2 | 0 | N 38 | 9 | 10 | 23 |
| 1 | Tu | 15 | 23 | 15 | 19 | 19 | 40 | 17 | 34 | 7 | x 5 | 1 | 57 15 | 44 | 23 | 12 |
| 2 | W | 15 | 27 | 12 | 20 | 20 | 4 | 17 | 51 | 22 | 8 | 8 | 8 21 | 21 | 23 | 10 |
| 3 | Th | 15 | 31 | 8 | 21 | 20 | 30 | 18 | 7 | 7 | Π 1 | 4 | 6 25 | 32 | 23 | 7 |
| 4 | F | 15 | 35 | 5 | 22 | 20 | 58 | 18 | 22 | 21 | 37 | 4 | 46 27 | 57 | 23 | 4 |
| 5 | S | 15 | 39 | 2 | 23 | 21 | 27 | 18 | 38 | 5 | 5 48 | 5 | 7 28 | 27 | 23 | 2 |
| 6 | S | 15 | 42 | 58 | 24 | 21 | 58 | 18 | 53 | 19 | 32 | 5 | 10 27 | 9 | 22 | 59 |
| 7 | M | 15 | 46 | 55 | 25 | 22 | 31 | 19 | 7 | 2 | Ω 48 | 4 | 55 24 | 20 | 22 | 56 |
| 8 | Tu | 15 | 50 | 51 | 26 | 23 | 5 | 19 | 22 | 15 | 37 | 4 | 27 20 | 24 | 22 | 54 |
| 9 | W | 15 | 54 | 48 | 27 | 23 | 41 | 19 | 36 | 28 | 4 | 3 | 46 15 | 41 | 22 | 51 |
| 0 | Th | 15 | 58 | 44 | 28 | 24 | 19 | 19 | 49 | 10 | m 13 | 2 | 56 10 | 27 | 22 | 48 |
| 1 | F | 16 | 2 | 41 | 29 | 24 | 59 | 20 | 3 | 22 | 9 | 1 | 59 4 | 56 | 22 | 46 |
| 2 | S | 16 | 6 | 37 | 0 | f 25 | 40 | 20 | 15 | 3 | Δ 58 | 0 | 57 0 | S 42 | 22 | 43 |
| 3 | S | 16 | 10 | 34 | 1 | 26 | 23 | 20 | 28 | 15 | 44 | 0 | S 6 | 6 | 17 | 23 |
| 4 | M | 16 | 14 | 31 | 2 | 27 | 8 | 20 | 40 | 27 | 31 | 1 | 9 11 | 41 | 22 | 39 |
| 5 | Tu | 16 | 18 | 27 | 3 | 27 | 54 | 20 | 52 | 9 | m 24 | 2 | 10 16 | 41 | 22 | 36 |
| 6 | W | 16 | 22 | 24 | 4 | 28 | 41 | 21 | 3 | 21 | 25 | 3 | 5 21 | 6 | 22 | 34 |
| 7 | Th | 16 | 26 | 20 | 5 | 29 | 30 | 21 | 14 | 3 | f 36 | 3 | 52 24 | 42 | 22 | 31 |
| 8 | F | 16 | 30 | 17 | 6 | 30 | 20 | 21 | 25 | 15 | 59 | 4 | 30 27 | 11 | 22 | 29 |
| 9 | S | 16 | 34 | 13 | 7 | 31 | 11 | 21 | 35 | 28 | 32 | 4 | 54 28 | 22 | 22 | 27 |
| 0 | S | 16 | 38 | 10 | 8 | 32 | 4 | 21 | 45 | 11 | w 18 | 5 | 5 28 | 3 | 22 | 24 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 18 27 | 24 S 54 | 0 S 49 | 22 S 13 | 2 N 10 | 6 S 4 | 14 r 0 |
| 4 | 1 27 | 24 50 | 0 57 | 22 56 | 2 13 | 7 11 | 13 50 |
| 7 | 1 27 | 24 43 | 1 5 | 23 34 | 2 8 | 8 39 | 13 41 |
| 10 | 1 26 | 24 34 | 1 12 | 24 5 | 1 58 | 10 20 | 13 31 |
| 13 | 1 26 | 24 23 | 1 19 | 24 30 | 1 43 | 12 5 | 13 22 |
| 16 | 1 25 | 24 9 | 1 26 | 24 48 | 1 24 | 13 51 | 13 12 |
| 19 | 1 25 | 23 53 | 1 32 | 24 59 | 1 5 | 15 34 | 13 8 |
| 22 | 1 24 | 23 34 | 1 37 | 25 4 | 0 44 | 17 12 | 12 53 |
| 25 | 1 23 | 23 13 | 1 42 | 25 2 | 0 23 | 18 44 | 12 43 |
| 28 | 1 22 | 22 50 | 1 47 | 24 54 | 0 2 | 20 8 | 12 34 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 14 510 | 0 r 8 | 2 w 33 | 6 f 24 | 20 38 | | | | | | | * |
| 2 | 14 R 9 | 0 R 4 | 3 17 | 7 38 | 21 36 | | | | | ☐ | ♈ | |
| 3 | 14 8 | 0 0 | 4 2 | 8 52 | 22 40 | | * | | ♈ | | | |
| 4 | 14 7 | 29 x 56 | 4 47 | 10 6 | 23 49 | | | Δ | | * | | ☐ |
| 5 | 14 6 | 29 52 | 5 32 | 11 20 | 25 3 | | ☐ | | | | | * |
| 6 | 14 5 | 29 49 | 6 18 | 12 34 | 26 20 | ☉ Δ h | | ☐ | | | | Δ |
| 7 | 14 3 | 29 45 | 7 4 | 13 49 | 27 40 | ☉ ☐ ♈ | | | Δ | | * | ☐ |
| 8 | 14 2 | 29 42 | 7 49 | 15 3 | 29 4 | | Δ | * | | ♈ | | |
| 9 | 14 0 | 29 39 | 8 35 | 16 17 | 0 m 30 | ♈ ☐ h | | | | ☐ | ☐ | |
| 10 | 13 59 | 29 36 | 9 20 | 17 31 | 1 58 | | | | | | | Δ |
| 11 | 13 57 | 29 33 | 10 6 | 18 45 | 3 27 | | | | | * | Δ | ♈ |
| 12 | 13 55 | 29 31 | 10 52 | 19 59 | 4 57 | ♈ ∠ ♈ | ♈ | ♈ | | * | | |
| 13 | 13 53 | 29 28 | 11 38 | 21 12 | 6 29 | | | | | | | |
| 14 | 13 51 | 29 25 | 12 23 | 22 26 | 8 1 | ♈ ⊥ ☉ | | | | | | ♈ |
| 15 | 13 49 | 29 23 | 13 9 | 23 40 | 9 34 | ☉ ♈ h | | | | ☐ | | Δ |
| 16 | 13 47 | 29 21 | 13 54 | 24 54 | 11 7 | ♈ ♈ h | Δ | * | ♈ | | ♈ | |
| 17 | 13 44 | 29 20 | 14 40 | 26 8 | 12 41 | | | | | Δ | | |
| 18 | 13 42 | 29 19 | 15 25 | 27 22 | 14 15 | ♈ Δ h | | | | | | ☐ |
| 19 | 13 40 | 29 18 | 16 11 | 28 36 | 15 49 | ♈ * ♈ | ☐ | ☐ | | | | Δ |
| 20 | 13 37 | 29 17 | 16 57 | 29 50 | 17 24 | ♀ ☐ ♈ | | | * | | | |
| 21 | 13 34 | 29 17 | 17 43 | 1 w 3 | 18 58 | ☉ Δ ♈ | | Δ | | | Δ | * |
| 22 | 13 31 | 29 16 | 18 29 | 2 17 | 20 33 | | * | | | ♈ | | ☐ |
| 23 | 13 28 | 29 16 | 19 15 | 3 31 | 22 7 | ♈ ♈ h | | | ☐ | | ☐ | |
| 24 | 13 25 | 29 D 16 | 20 1 | 4 45 | 23 42 | ♈ P h | | | | | | |
| 25 | 13 22 | 29 17 | 20 48 | 5 58 | 25 16 | | | | Δ | | | * |
| 26 | 13 18 | 29 17 | 21 34 | 7 12 | 26 51 | ♀ ☐ h | | ♈ | | | * | |
| 27 | 13 14 | 29 18 | 22 20 | 8 26 | 28 26 | ♈ Δ h | ♈ | | | Δ | | ♈ |
| 28 | 13 11 | 29 18 | 23 7 | 9 40 | 0 f 1 | ♈ Δ ♈ | | | | | | |
| 29 | 13 7 | 29 19 | 23 53 | 10 53 | 1 35 | | | | | ☐ | | |
| 30 | 13 4 | 29 21 | 24 39 | 12 7 | 3 10 | | | | ♈ | | | ♈ |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 17 | 18 N 7 | 0 S 37 | 22 N 13 | 1 S 26 | 1 S 34 |
| 4 | 16 | 16 | 0 17 | 18 5 | 0 37 | 22 14 | 1 25 | 1 31 |
| 7 | 16 | 17 | 0 17 | 18 3 | 0 36 | 22 15 | 1 24 | 1 29 |
| 10 | 16 | 17 | 0 17 | 18 2 | 0 36 | 22 17 | 1 23 | 1 23 |
| 18 | 16 | 17 | 0 17 | 18 0 | 0 36 | 22 18 | 1 22 | 1 18 |
| 16 | 16 | 18 | 0 17 | 17 59 | 0 36 | 22 19 | 1 22 | 1 12 |
| 19 | 16 | 18 | 0 16 | 17 57 | 0 35 | 22 21 | 1 21 | 1 6 |
| 22 | 16 | 18 | 0 16 | 17 56 | 0 35 | 22 23 | 1 20 | 0 59 |
| 25 | 16 | 18 | 0 16 | 17 54 | 0 35 | 22 24 | 1 19 | 0 51 |
| 28 | 16 | 18 | 0 16 | 17 53 | 0 34 | 22 26 | 1 19 | 0 43 |
| 31 | 16 | 18 | 0 16 | 17 52 | 0 34 | 22 27 | 1 18 | 0 34 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | M | 16 | 42 | 6 | 9 32 57 | 21 S 54 | 24 16 | 5 S 0 | 26 S 12 | 22 22 |
| 2 | Tu | 16 | 46 | 3 | 10 33 51 | 22 3 | 7 25 | 4 40 | 22 56 | 22 33 |
| 3 | W | 16 | 50 | 0 | 11 34 45 | 22 12 | 20 47 | 4 4 | 18 25 | 22 17 |
| 4 | Th | 16 | 53 | 56 | 12 35 41 | 22 20 | 4 23 | 3 13 | 12 54 | 22 13 |
| 5 | F | 16 | 57 | 53 | 13 36 37 | 22 27 | 18 13 | 2 11 | 6 40 | 22 13 |
| 6 | S | 17 | 1 | 49 | 14 37 34 | 22 34 | 2 17 | 1 0 | 0 N 0 | 22 11 |
| 7 | S | 17 | 5 | 46 | 15 38 32 | 22 41 | 16 35 | 0 N 17 | 6 47 | 22 6 |
| 8 | M | 17 | 9 | 42 | 16 39 30 | 22 47 | 1 6 | 1 33 | 13 19 | 22 0 |
| 9 | Tu | 17 | 13 | 39 | 17 40 29 | 22 53 | 15 45 | 2 43 | 19 10 | 22 4 |
| 10 | W | 17 | 17 | 36 | 18 41 29 | 22 59 | 0 27 | 3 43 | 23 54 | 22 2 |
| 11 | Th | 17 | 21 | 32 | 19 42 29 | 23 4 | 15 5 | 4 27 | 27 3 | 22 1 |
| 12 | F | 17 | 25 | 29 | 20 43 30 | 23 8 | 29 31 | 4 54 | 28 22 | 21 5 |
| 13 | S | 17 | 29 | 25 | 21 44 32 | 23 12 | 13 39 | 5 2 | 27 46 | 21 3 |
| 14 | S | 17 | 33 | 22 | 22 45 35 | 23 16 | 27 23 | 4 53 | 25 29 | 21 3 |
| 15 | M | 17 | 37 | 18 | 23 46 38 | 23 19 | 10 42 | 4 27 | 21 51 | 21 0 |
| 16 | Tu | 17 | 41 | 15 | 24 47 42 | 23 21 | 23 35 | 3 48 | 17 15 | 21 0 |
| 17 | W | 17 | 45 | 11 | 25 48 47 | 23 24 | 6 5 | 2 59 | 12 4 | 21 4 |
| 18 | Th | 17 | 49 | 8 | 26 49 53 | 23 25 | 18 17 | 2 4 | 6 32 | 21 4 |
| 19 | F | 17 | 53 | 5 | 27 50 59 | 23 27 | 0 14 | 1 3 | 0 52 | 21 4 |
| 20 | S | 17 | 57 | 1 | 28 52 7 | 23 27 | 12 4 | 0 1 | 4 S 46 | 21 4 |
| 21 | S | 18 | 0 | 58 | 29 53 15 | 23 28 | 23 50 | 1 S 1 | 10 13 | 21 3 |
| 22 | M | 18 | 4 | 54 | 0 54 23 | 23 27 | 5 40 | 2 1 | 15 19 | 21 3 |
| 23 | Tu | 18 | 8 | 51 | 1 55 33 | 23 27 | 17 37 | 2 56 | 19 55 | 21 0 |
| 24 | W | 18 | 12 | 47 | 2 56 43 | 23 26 | 29 45 | 3 43 | 23 45 | 21 3 |
| 25 | Th | 18 | 16 | 44 | 3 57 53 | 23 24 | 12 7 | 4 21 | 26 35 | 21 0 |
| 26 | F | 18 | 20 | 41 | 4 59 3 | 23 22 | 24 44 | 4 47 | 23 8 | 21 3 |
| 27 | S | 18 | 24 | 37 | 6 0 14 | 23 19 | 7 38 | 4 59 | 28 13 | 21 3 |
| 28 | S | 18 | 28 | 34 | 7 1 25 | 23 16 | 20 46 | 4 56 | 26 43 | 21 2 |
| 29 | M | 18 | 32 | 30 | 8 2 36 | 23 13 | 4 7 | 4 36 | 23 43 | 21 2 |
| 30 | Tu | 18 | 36 | 27 | 9 3 47 | 23 9 | 17 39 | 4 1 | 19 23 | 21 2 |
| 31 | W | 18 | 40 | 23 | 10 4 58 | 23 5 | 1 19 | 3 11 | 13 59 | 21 2 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 1 S 21 | 22 S 24 | 1 S 51 | 24 S 38 | 0 S 18 | 21 S 24 | 12 r 24 |
| 4 | 1 20 | 21 56 | 1 54 | 24 16 | 0 37 | 22 30 | 12 15 |
| 7 | 1 19 | 21 26 | 1 57 | 23 48 | 0 56 | 23 27 | 12 5 |
| 10 | 1 18 | 20 54 | 1 59 | 23 13 | 1 13 | 24 12 | 11 56 |
| 13 | 1 17 | 20 20 | 2 0 | 22 32 | 1 29 | 24 47 | 11 46 |
| 16 | 1 15 | 19 44 | 2 0 | 21 46 | 1 42 | 25 9 | 11 36 |
| 19 | 1 14 | 19 6 | 1 59 | 20 53 | 1 53 | 25 19 | 11 27 |
| 22 | 1 12 | 18 26 | 1 58 | 19 56 | 2 2 | 25 15 | 11 17 |
| 25 | 1 11 | 17 44 | 1 56 | 18 54 | 2 7 | 24 58 | 11 8 |
| 28 | 1 9 | 17 1 | 1 53 | 17 47 | 2 10 | 24 27 | 10 58 |
| 31 | 1 8 | 16 16 | 1 50 | 16 37 | 2 7 | 23 42 | 10 49 |

| D
M | h
Long. | ♂
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lunar Aspects. | | | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|---|---|
| | | | | | | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | | | | |
| 1 | 13 50 | 29 22 | 25 26 | 13 21 | 4 44 | ♀ ♂ h | | Δ | | * | ♊ | | | | |
| 2 | 12 57 | 29 24 | 26 12 | 14 34 | 6 18 | | * | | | | | | | * | |
| 3 | 12 53 | 29 25 | 26 59 | 15 48 | 7 52 | | | □ | | | | | | | |
| 4 | 12 49 | 29 27 | 27 46 | 17 1 | 9 26 | | | | | | | | | | □ |
| 5 | 12 45 | 29 29 | 28 32 | 18 14 | 11 1 | ☉ ∠ ♂ | □ | * | Δ | | | * | | | |
| 6 | 12 41 | 29 31 | 29 19 | 19 27 | 12 35 | ♂ * ♂ | | | | | ♊ | * | | | |
| 7 | 12 38 | 29 34 | 0 6 | 20 41 | 14 9 | | Δ | | □ | | ♊ | * | □ | Δ | |
| 8 | 12 34 | 29 37 | 0 52 | 21 54 | 15 43 | ♀ Δ ☿ | | | | | | | □ | | |
| 9 | 12 30 | 29 40 | 1 38 | 23 7 | 17 17 | | | ♊ | * | | | | | | |
| 10 | 12 25 | 29 43 | 2 25 | 24 21 | 18 51 | ☉ ♂ ♀ | | | | * | Δ | Δ | | | |
| 11 | 12 21 | 29 47 | 3 12 | 25 34 | 20 26 | | | ♊ | | | | | | | ♊ |
| 12 | 12 16 | 29 50 | 3 59 | 26 47 | 22 0 | | | | | | □ | | | | |
| 13 | 12 12 | 29 54 | 4 46 | 28 1 | 23 35 | | | | ♊ | | | | | | |
| 14 | 12 7 | 29 58 | 5 32 | 29 14 | 25 10 | | | * | | Δ | | | ♊ | | |
| 15 | 12 2 | 0 r 2 | 6 19 | 0 27 | 26 44 | ♀ * ♂ | | | | | | ♊ | | | |
| 16 | 11 57 | 0 7 | 7 6 | 1 39 | 28 91 | | Δ | □ | | | | | | | Δ |
| 17 | 11 53 | 0 11 | 7 52 | 2 52 | 29 55 | ♀ □ ♂ | | | | * | | | | | |
| 18 | 11 48 | 0 16 | 8 39 | 4 5 | 1 31 | | | Δ | | | | | | | |
| 19 | 11 44 | 0 21 | 9 26 | 5 18 | 3 6 | | □ | | | | ♊ | | Δ | | □ |
| 20 | 11 39 | 0 26 | 10 13 | 6 31 | 4 41 | | | | □ | | Δ | | | | |
| 21 | 11 34 | 0 31 | 11 0 | 7 44 | 6 17 | | | | | | | | | | |
| 22 | 11 29 | 0 36 | 11 48 | 8 57 | 7 54 | ☉ □ ♂ | * | | Δ | | | | □ | * | |
| 23 | 11 24 | 0 42 | 12 35 | 10 10 | 9 30 | | | | ♊ | | | | | | |
| 24 | 11 19 | 0 48 | 13 22 | 11 22 | 11 6 | ♂ ♂ h | | | | Δ | | | □ | | |
| 25 | 11 14 | 0 54 | 14 9 | 12 34 | 12 48 | ♂ ∠ ♀ | | | | | | * | * | | |
| 26 | 11 9 | 1 14 | 15 56 | 13 47 | 14 20 | | | | | | □ | | | | |
| 27 | 11 4 | 1 7 | 15 43 | 15 0 | 15 57 | ☉ □ ☿ | ♊ | | ♊ | | | | | | ♊ |
| 28 | 10 59 | 1 14 | 16 30 | 16 12 | 17 34 | ♂ ∠ ♂ | | Δ | | | | | | | |
| 29 | 10 54 | 1 20 | 17 17 | 17 24 | 19 11 | ♀ ♂ ♂ | | | | * | | | | | |
| 30 | 10 49 | 1 27 | 18 3 | 18 36 | 20 48 | ♀ Δ ☿ | | □ | | | | ♊ | ♊ | | |
| 31 | 10 44 | 1 34 | 18 50 | 19 48 | 22 24 | | | | | | | | | | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 35' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 4 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 4 |
|----------------------------|----|----|----|----|----|--------|----|----|----|----------------------------|----|----|----|----|----|--------|----|----|----|
| H. | M. | S. | ° | ' | " | ° | ' | ° | ' | H. | M. | S. | ° | ' | " | ° | ' | ° | ' |
| 0 | 0 | 0 | 0 | 10 | 36 | 36 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 36 | 1 | 30 |
| 0 | 3 | 40 | 1 | 11 | 25 | 38 | 48 | 14 | 4 | 1 | 55 | 37 | 1 | 12 | 30 | 18 | 11 | 8 | 29 |
| 0 | 7 | 20 | 2 | 12 | 36 | 39 | 36 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 19 | 51 | 7 | 1 |
| 0 | 11 | 0 | 3 | 13 | 27 | 40 | 16 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 20 | 0 | 40 | 17 | 6 | 2 | 8 | 50 | 4 | 15 | 22 | 20 | 9 | 9 | 2 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 2 |
| 0 | 22 | 3 | 6 | 16 | 20 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 2 |
| 0 | 26 | 42 | 7 | 17 | 25 | 3 | 48 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 6 | 11 | 4 |
| 0 | 30 | 25 | 8 | 18 | 1 | 4 | 36 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 23 | 47 | 11 | 5 |
| 0 | 34 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 29 | 12 | 6 |
| 0 | 38 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 9 | 13 | 7 |
| 0 | 42 | 26 | 11 | 21 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 14 | 11 | 21 | 27 | 24 | 40 | 13 | 8 |
| 0 | 46 | 8 | 12 | 22 | 4 | 5 | 38 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 30 | 14 | 9 |
| 0 | 50 | 50 | 13 | 23 | 4 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 54 | 14 | 14 | 24 | 5 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 30 | 26 | 40 | 15 | 11 |
| 0 | 58 | 4 | 15 | 25 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 31 | 27 | 39 | 16 | 11 |
| 0 | 59 | 4 | 16 | 27 | 8 | 8 | 33 | 25 | 16 | 2 | 54 | 7 | 15 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 3 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 29 | 51 | 18 | 13 |
| 1 | 8 | 22 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 2 | 3 | 8 | 18 | 28 | 3 | 30 | 33 | 19 | 14 |
| 1 | 10 | 7 | 19 | 11 | 10 | 10 | 26 | 27 | 19 | 2 | 8 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 8 | 28 | 20 | 2 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 21 | 16 |
| 1 | 17 | 34 | 21 | 2 | 12 | 11 | 48 | 29 | 20 | 2 | 14 | 15 | 21 | 31 | 6 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 13 | 12 | 23 | 30 | 21 | 2 | 18 | 19 | 22 | 1 | 7 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 31 | 22 | 2 | 22 | 23 | 23 | 2 | 8 | 3 | 39 | 23 | 19 |
| 1 | 29 | 53 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 2 | 26 | 29 | 24 | 3 | 9 | 4 | 41 | 24 | 20 |
| 1 | 33 | 29 | 25 | 6 | 15 | 14 | 19 | 2 | 24 | 2 | 30 | 25 | 25 | 4 | 9 | 5 | 38 | 25 | 21 |
| 1 | 37 | 26 | 26 | 7 | 16 | 14 | 59 | 3 | 25 | 2 | 34 | 41 | 26 | 5 | 9 | 6 | 6 | 26 | 22 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 36 | 3 | 26 | 2 | 38 | 49 | 27 | 6 | 10 | 6 | 47 | 27 | 23 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 27 | 2 | 42 | 37 | 28 | 7 | 11 | 6 | 30 | 28 | 24 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 2 | 47 | 8 | 29 | 8 | 12 | 7 | 13 | 29 | 25 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 33 | 5 | 28 | 2 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 30 | 26 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 4 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 4 |
|----------------------------|----|----|----|----|----|--------|----|----|----|----------------------------|----|----|----|----|----|--------|----|----|----|
| H. | M. | S. | ° | ' | " | ° | ' | ° | ' | H. | M. | S. | ° | ' | " | ° | ' | ° | ' |
| 2 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 3 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 30 | 26 |
| 2 | 54 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 3 | 4 | 30 | 1 | 8 | 8 | 1 | 34 | 26 | 26 |
| 2 | 59 | 39 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 3 | 8 | 49 | 2 | 9 | 9 | 2 | 35 | 26 | 27 |
| 4 | 3 | 40 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 3 | 12 | 5 | 3 | 10 | 10 | 3 | 36 | 26 | 27 |
| 4 | 8 | 0 | 4 | 13 | 16 | 11 | 47 | 1 | 29 | 3 | 17 | 26 | 4 | 11 | 11 | 4 | 37 | 26 | 27 |
| 4 | 13 | 12 | 5 | 14 | 16 | 12 | 30 | 2 | 30 | 3 | 21 | 49 | 5 | 12 | 12 | 5 | 38 | 26 | 28 |
| 4 | 18 | 39 | 6 | 15 | 17 | 13 | 13 | 3 | 31 | 3 | 26 | 9 | 6 | 13 | 13 | 6 | 39 | 26 | 28 |
| 4 | 23 | 40 | 7 | 16 | 18 | 14 | 59 | 4 | 1 | 3 | 30 | 30 | 7 | 14 | 14 | 7 | 40 | 26 | 28 |
| 4 | 28 | 54 | 8 | 16 | 19 | 15 | 40 | 5 | 2 | 3 | 34 | 51 | 8 | 15 | 15 | 8 | 41 | 26 | 28 |
| 4 | 33 | 10 | 9 | 17 | 20 | 16 | 24 | 6 | 3 | 3 | 39 | 11 | 9 | 16 | 16 | 9 | 42 | 26 | 28 |
| 4 | 38 | 29 | 10 | 18 | 21 | 17 | 8 | 6 | 4 | 3 | 43 | 31 | 10 | 17 | 17 | 10 | 43 | 26 | 28 |
| 4 | 43 | 43 | 11 | 19 | 22 | 18 | 53 | 7 | 5 | 3 | 47 | 51 | 11 | 18 | 18 | 11 | 44 | 26 | 28 |
| 4 | 48 | 59 | 12 | 20 | 23 | 19 | 36 | 8 | 6 | 3 | 52 | 11 | 12 | 19 | 19 | 12 | 45 | 26 | 28 |
| 4 | 53 | 16 | 13 | 21 | 24 | 20 | 19 | 9 | 7 | 3 | 56 | 31 | 13 | 20 | 20 | 13 | 46 | 26 | 28 |
| 4 | 58 | 34 | 14 | 22 | 25 | 21 | 4 | 10 | 8 | 3 | 0 | 50 | 14 | 21 | 21 | 14 | 47 | 26 | 28 |
| 4 | 54 | 52 | 15 | 23 | 26 | 22 | 49 | 11 | 9 | 3 | 5 | 8 | 15 | 22 | 22 | 15 | 48 | 26 | 28 |
| 4 | 59 | 10 | 16 | 24 | 27 | 23 | 39 | 12 | 10 | 3 | 9 | 29 | 16 | 23 | 23 | 16 | 49 | 26 | 28 |
| 5 | 3 | 29 | 17 | 25 | 28 | 24 | 17 | 13 | 11 | 3 | 13 | 44 | 17 | 24 | 24 | 17 | 50 | 26 | 28 |
| 5 | 7 | 49 | 18 | 26 | 29 | 25 | 1 | 14 | 12 | 3 | 18 | 1 | 18 | 25 | 25 | 18 | 51 | 26 | 28 |
| 5 | 12 | 9 | 19 | 27 | 30 | 26 | 31 | 15 | 13 | 3 | 22 | 19 | 19 | 26 | 26 | 19 | 52 | 26 | 28 |
| 5 | 16 | 29 | 20 | 28 | 31 | 27 | 31 | 16 | 14 | 3 | 26 | 34 | 20 | 27 | 27 | 20 | 53 | 26 | 28 |
| 5 | 20 | 49 | 21 | 29 | 32 | 28 | 14 | 17 | 15 | 3 | 30 | 50 | 21 | 28 | 28 | 21 | 54 | 26 | 28 |
| 5 | 25 | 9 | 22 | 30 | 33 | 29 | 0 | 18 | 16 | 3 | 35 | 5 | 22 | 29 | 29 | 22 | 55 | 26 | 28 |
| 5 | 29 | 30 | 23 | 31 | 34 | 30 | 45 | 19 | 17 | 3 | 40 | 24 | 23 | 30 | 30 | 23 | 56 | 26 | 28 |
| 5 | 33 | 51 | 24 | 32 | 1 | 31 | 30 | 20 | 18 | 3 | 45 | 54 | 24 | 31 | 31 | 24 | 57 | 26 | 28 |
| 5 | 38 | 12 | 25 | 33 | 2 | 32 | 15 | 21 | 19 | 3 | 49 | 47 | 25 | 32 | 32 | 25 | 58 | 26 | 28 |
| 5 | 43 | 34 | 26 | 34 | 3 | 33 | 27 | 22 | 20 | 3 | 54 | 0 | 26 | 33 | 33 | 26 | 59 | 26 | 28 |
| 5 | 48 | 55 | 27 | 35 | 4 | 34 | 44 | 23 | 21 | 3 | 59 | 13 | 27 | 34 | 34 | 27 | 60 | 26 | 28 |
| 5 | 51 | 17 | 28 | 36 | 5 | 35 | 30 | 24 | 22 | 3 | 0 | 26 | 28 | 35 | 35 | 28 | 61 | 26 | 28 |
| 5 | 55 | 39 | 29 | 37 | 6 | 36 | 15 | 25 | 23 | 3 | 5 | 35 | 29 | 36 | 36 | 29 | 62 | 26 | 28 |
| 6 | 0 | 0 | 30 | 38 | 7 | 37 | 0 | 26 | 24 | 3 | 10 | 45 | 30 | 37 | 37 | 30 | 63 | 26 | 28 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 | |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 | |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 | |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 | |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 | |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 | |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 | |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 | |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 | |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 | |
| 8 | 49 | 49 | 10 | 14 | 9 | 29 | 6 | 26 | vr | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 | |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | m | |
| 8 | 57 | 52 | 12 | 16 | 11 | Om | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 | |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 | |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 | |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 | |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | f | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 | |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 21 | 25 | 7 | |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 | |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 | |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 | |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 | |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 12 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 | |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | vr | 13 | |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 | |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 15 | |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 | |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 17 | |
| 10 | 0 | 48 | 28 | 29 | 24 | 11 | 9 | 10 | 18 | 11 | 53 | 49 | 28 | 25 | 15 | 0 | f | 35 | 4 | 18 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 5 | 20 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 6 | 21 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 12 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 3 | 40 | 1 | 29 | 17 | 2 | 33 | 7 | 22 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 29 |
| 12 | 7 | 20 | 2 | 30 | 18 | 3 | 11 | 8 | 23 | 12 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | r |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 28 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 12 | 3 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 28 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 26 | 48 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 56 | 17 | 7 |
| 12 | 30 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | * | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 22 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0 | vr | 20 | 9 |
| 12 | 38 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | f | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 26 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 18 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | * | 19 |
| 13 | 2 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 20 |
| 13 | 6 | 23 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 21 |
| 13 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 38 | 6 | 23 |
| 13 | 13 | 51 | 20 | 13 | f | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 13 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 13 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 13 | 25 | 6 | 23 | 15 | 2 | 17 | 38 | 29 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 28 |
| 13 | 28 | 52 | 24 | 16 | 3 | 18 | 25 | m | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 29 |
| 13 | 32 | 39 | 25 | 17 | 4 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 3 |
| 13 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 22 | 15 | 34 | 41 | 26 | 14 | vr | 18 | 53 | 19 | 3 |
| 13 | 40 | 12 | 27 | 19 | 6 | 20 | 48 | 3 | 23 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 3 |
| 13 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 24 | 15 | 42 | 57 | 29 | 15 | 2 | 21 | 28 | 22 | 4 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | | ° | ° | H. M. S. | | | ° | ° | ° | ° | | ° | ° |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 22 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 48 | 2 | 19 | 13 | 5 | 46 | 23 | 15 |
| 16 | 3 | 49 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 35 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | 29 | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 30 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 23 | 18 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 50 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 11 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 22 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 3 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 26 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 28 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 3 | 6 | 53 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 13 | 5 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 5 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 25 | 0 | 7 | 2 | 11 | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 29 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 2 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 24 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 17 | 4 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 23 | 8 | 5 | 19 | 40 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 45 | 34 | 24 | 15 | 22 | 26 | 33 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 13 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 16 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 49 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 11 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 7 | 2 | 51 | 25 | 11 |
| 17 | 55 | 36 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 13 | 20 | 8 | 45 | 30 | 23 | 3 | 5 | 47 | 27 | 13 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | | ° | ° | H. M. S. | | | ° | ° | ° | ° | | ° | ° |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 23 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 23 | 9 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 23 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 32 | 28 | 14 | 23 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 23 | 11 |
| 20 | 21 | 11 | 3 | 27 | 9 | 9 | 50 | 29 | 15 | 23 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 12 |
| 20 | 25 | 19 | 4 | 28 | 11 | 11 | 7 | 25 | 16 | 23 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 25 | 13 |
| 20 | 29 | 26 | 5 | 29 | 13 | 13 | 23 | 1 | 17 | 23 | 27 | 22 | 5 | 9 | 29 | 10 | 50 | 26 | 14 |
| 20 | 33 | 31 | 6 | 30 | 15 | 15 | 30 | 2 | 18 | 23 | 31 | 8 | 6 | 10 | 11 | 11 | 35 | 26 | 15 |
| 20 | 37 | 37 | 7 | 3 | 17 | 14 | 50 | 3 | 19 | 23 | 34 | 54 | 7 | 12 | 1 | 13 | 23 | 27 | 16 |
| 20 | 41 | 41 | 8 | 3 | 18 | 16 | 0 | 4 | 20 | 23 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 17 |
| 20 | 45 | 45 | 9 | 4 | 20 | 17 | 8 | 5 | 21 | 23 | 42 | 25 | 9 | 14 | 3 | 13 | 49 | 29 | 18 |
| 20 | 49 | 46 | 10 | 6 | 23 | 18 | 16 | 6 | 22 | 23 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 31 | 19 |
| 20 | 53 | 51 | 11 | 7 | 24 | 19 | 23 | 7 | 23 | 23 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 32 | 20 |
| 20 | 57 | 53 | 12 | 9 | 26 | 20 | 27 | 7 | 23 | 23 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 33 | 21 |
| 21 | 1 | 53 | 13 | 10 | 27 | 21 | 30 | 8 | 24 | 23 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 34 | 22 |
| 21 | 5 | 53 | 14 | 11 | 29 | 23 | 33 | 9 | 25 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 35 | 23 |
| 21 | 9 | 53 | 15 | 12 | 3 | 23 | 32 | 10 | 26 | 23 | 4 | 46 | 15 | 23 | 10 | 18 | 7 | 36 | 24 |
| 21 | 13 | 53 | 16 | 14 | 3 | 24 | 32 | 11 | 27 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 37 | 25 |
| 21 | 17 | 50 | 17 | 15 | 4 | 25 | 30 | 12 | 27 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 38 | 26 |
| 21 | 21 | 47 | 18 | 17 | 6 | 26 | 26 | 13 | 28 | 23 | 15 | 52 | 18 | 26 | 13 | 20 | 12 | 39 | 27 |
| 21 | 25 | 44 | 19 | 18 | 7 | 27 | 24 | 14 | 29 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 40 | 28 |
| 21 | 29 | 40 | 20 | 19 | 9 | 28 | 20 | 15 | 30 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 41 | 29 |
| 21 | 33 | 36 | 21 | 21 | 10 | 29 | 15 | 16 | 1 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 42 | 30 |
| 21 | 37 | 30 | 22 | 23 | 11 | 0 | 9 | 16 | 2 | 23 | 30 | 37 | 22 | 31 | 17 | 23 | 52 | 43 | 31 |
| 21 | 41 | 28 | 23 | 23 | 12 | 1 | 2 | 16 | 3 | 23 | 34 | 18 | 23 | 1 | 18 | 24 | 33 | 44 | 32 |
| 21 | 45 | 16 | 24 | 25 | 13 | 1 | 55 | 17 | 4 | 23 | 37 | 56 | 24 | 2 | 19 | 24 | 13 | 45 | 33 |
| 21 | 49 | 9 | 25 | 26 | 15 | 2 | 47 | 18 | 5 | 23 | 41 | 39 | 25 | 4 | 20 | 24 | 58 | 46 | 34 |
| 21 | 53 | 1 | 26 | 28 | 17 | 3 | 39 | 19 | 6 | 23 | 45 | 19 | 26 | 5 | 21 | 25 | 11 | 47 | 35 |
| 21 | 57 | 58 | 27 | 29 | 19 | 4 | 29 | 20 | 7 | 23 | 49 | 0 | 27 | 6 | 22 | 26 | 11 | 48 | 36 |
| 22 | 0 | 49 | 28 | 31 | 21 | 5 | 18 | 21 | 8 | 23 | 53 | 40 | 28 | 7 | 23 | 27 | 49 | 49 | 37 |
| 22 | 4 | 38 | 29 | 33 | 23 | 6 | 7 | 22 | 9 | 23 | 56 | 30 | 29 | 8 | 24 | 28 | 52 | 50 | 38 |
| 22 | 8 | 29 | 30 | 35 | 25 | 7 | 59 | 23 | 10 | 23 | 0 | 9 | 30 | 9 | 25 | 29 | 55 | 51 | 39 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING and RESTORATIVE Properties**. Hence their invariable success in the **RELIEF and CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 6d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

Invalids should read Crosby's Prime Treatise on "**DISEASES OF THE LUNGS AND AIR VESICLES**," a copy of which can be had **Gratis** of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR

Opium, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdues Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as most valuable adjunct to an otherwise strengthening treatment in this disease."

CROSBY'S BALSAMIC COUGH ELIXIR

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the Vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c. may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

CONSUMPTIVE NIGHT

**SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

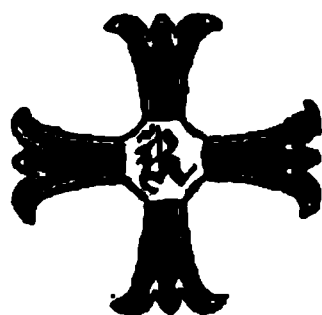
Ask your Chemist for the New Edition (GRATE) of Crosby's Treatise on "**DISEASES OF THE LUNGS AND AIR-VESSELS**" containing full and plain instructions for the relief and cure of the diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES
For 1857.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

iA(m.) 934 e. 160

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spiritous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Mallibrant, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read DR. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. Rooke, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Rooke under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of any Chemists, or post free from Dr. Rooke, Scarborough, England.

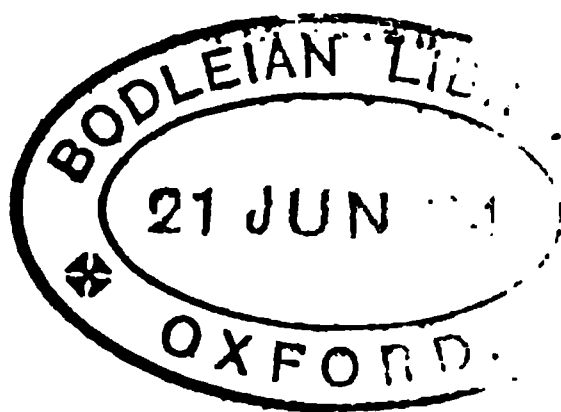
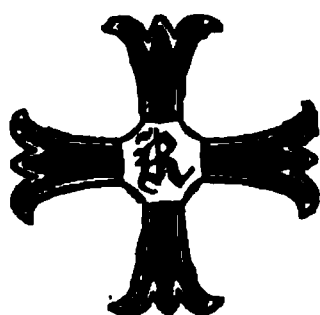
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 172 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1857.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|------------|---------|------------|----------|----------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 18 | 0 8 | 16 17 N 52 | 0 8 | 34 22 N 28 | 1 8 | 18 08 31 |
| 4 | 16 | 18 | 0 16 | 17 51 | 0 34 | 22 29 | 1 17 | 0 21 |
| 7 | 16 | 18 | 0 16 | 17 50 | 0 33 | 22 31 | 1 16 | 0 11 |
| 10 | 16 | 18 | 0 16 | 17 49 | 0 33 | 22 32 | 1 16 | 0 0 |
| 13 | 16 | 18 | 0 16 | 17 49 | 0 32 | 22 33 | 1 15 | 0 N 11 |
| 16 | 16 | 18 | 0 16 | 17 48 | 0 32 | 22 35 | 1 14 | 0 23 |
| 19 | 16 | 17 | 0 16 | 17 48 | 0 31 | 22 36 | 1 14 | 0 35 |
| 22 | 16 | 17 | 0 16 | 17 48 | 0 31 | 22 38 | 1 13 | 0 47 |
| 25 | 16 | 17 | 0 16 | 17 47 | 0 31 | 22 39 | 1 12 | 1 0 |
| 28 | 16 | 17 | 0 16 | 17 47 | 0 30 | 22 40 | 1 12 | 1 13 |
| 31 | 16 | 16 | 0 16 | 17 46 | 0 30 | 22 41 | 1 11 | 1 27 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. | | | | | |
|--------|--------|-------------------|----|----|------------|-------------|------------|-----------|--------------|------------|--------|--------|---------|---------|--------|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | | | | | |
| 1 | Th | 18 | 44 | 20 | 11 w | 6 | 9 | 23 S | 0 15 | 7 | 2 S 10 | 7 S 52 | 21 5 23 | | |
| 2 | F | 18 | 48 | 16 | 12 | 7 | 19 | 22 | 54 | 29 | 1 | 1 1 | 1 19 | 21 3 21 | |
| 3 | S | 18 | 52 | 13 | 13 | 8 | 29 | 22 | 49 | 13 | r | 1 | 0 N 13 | 5 N 21 | 21 19 |
| 4 | S | 18 | 56 | 9 | 14 | 9 | 38 | 22 | 42 | 27 | 7 | 1 | 26 | 11 48 | 21 16 |
| 5 | ■ | 19 | 0 | 6 | 15 | 10 | 48 | 22 | 36 | 11 | 17 | 2 | 35 | 17 41 | 21 16 |
| 6 | Tu | 1 | | | | | | 22 | 29 | 25 | 81 | 3 | 34 | 22 37 | 21 15 |
| 7 | W | 1 | | | | | | 22 | 21 | 9 | 146 | 4 | 19 | 26 12 | 21 14 |
| 8 | Th | 1 | | | | | | 22 | 13 | 23 | 56 | 4 | 49 | 28 8 | 21 13 |
| 9 | ■ | 1 | | | | | | 22 | 5 | 7 | 59 | 5 | 0 | 28 13 | 21 12 |
| 10 | S | 1 | | | | | | 21 | 56 | 21 | 47 | 4 | 54 | 26 32 | 21 11 |
| 11 | S | 19 | 23 | 45 | 21 | 17 | 33 | 21 | 52 | 19 | 4 | 81 | 23 | 20 | 21 1 |
| 12 | M | 19 | 27 | 42 | 22 | 18 | 40 | 21 | 37 | 16 | 30 | 8 | 54 | 19 0 | 21 10 |
| 13 | Tu | 19 | 31 | 39 | 23 | 19 | 46 | 21 | 27 | 1 | 19 | 8 | 6 | 13 54 | 21 10 |
| 14 | W | 19 | 35 | 35 | 24 | 20 | 51 | 21 | 16 | 13 | 49 | 2 | 10 | 8 22 | 21 9 |
| 15 | Th | 19 | 39 | 32 | 25 | 21 | 56 | 21 | 5 | 26 | 1 | 1 | 9 | 2 38 | 21 9 |
| 16 | F | 19 | 43 | 28 | 26 | 23 | 1 | 20 | 54 | 8 | 0 | 0 | 6 | 3 8 5 | 21 8 |
| 17 | S | 19 | 47 | 25 | 27 | 24 | 6 | 20 | ■ | 19 | 51 | 0 S | 57 | 8 39 | 21 8 |
| 18 | S | 19 | 51 | 21 | 28 | 25 | 10 | 20 | 30 | 1 | m 38 | 1 | 57 | 13 53 | 21 7 |
| 19 | M | 19 | 55 | 18 | 29 | 26 | 15 | 20 | 17 | 13 | 29 | 2 | 52 | 18 35 | 21 7 |
| 20 | Tu | 19 | 59 | 14 | 0 m | 27 | 18 | 20 | 4 | 25 | 27 | 3 | 41 | 23 43 | 21 6 |
| 21 | W | 20 | 3 | 11 | 1 | 28 | 21 | 19 | 51 | 7 | f 39 | 4 | 20 | 25 52 | 21 6 |
| 22 | Th | 20 | 7 | 8 | 2 | 29 | 24 | 19 | 37 | 20 | 7 | 4 | 47 | 27 52 | 21 6 |
| 23 | F | 20 | 11 | 4 | 3 | 30 | 26 | 19 | 23 | 2 | w 55 | 5 | 2 | 28 27 | 21 5 |
| 24 | S | 20 | 15 | 1 | 4 | 31 | 27 | 19 | 9 | 16 | 3 | 5 | 0 | 27 28 | 21 5 |
| 25 | S | 20 | 18 | 57 | 5 | 32 | 27 | 18 | ■ | 29 | 81 | 4 | 49 | 24 53 | 21 5 |
| 26 | M | 20 | 22 | 54 | 6 | 33 | 27 | ■ | 39 | 13 | 16 | 4 | 8 | 20 49 | 21 4 |
| 27 | Tu | 20 | 26 | 50 | 7 | 34 | 25 | 18 | 24 | 27 | 14 | 3 | 19 | 15 33 | 21 4 |
| 28 | W | 20 | 30 | 47 | 8 | 35 | 23 | ■ | 8 | 11 | 21 | 2 | 16 | 9 25 | 21 4 |
| 29 | Th | 20 | 34 | 43 | 9 | 36 | 19 | 17 | 52 | 25 | 33 | 1 | 5 | 2 46 | 21 D 4 |
| 30 | F | 20 | 38 | 40 | 10 | 37 | 14 | 17 | 35 | 9 | r 47 | 0 N | 11 | 4 N 3 | 21 4 |
| 31 | S | 30 | 42 | 37 | 11 | 38 | 7 | 17 | 19 | 23 | 58 | 1 | 26 | 10 30 | 21 3 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | |
| 1 | 18 7 | 16 S 1 | 18 48 | 16 S 12 | 28 6 | 23 S 24 | 10 r 46 |
| 4 | 1 6 | 15 14 | 1 42 | 14 56 | 1 59 | 22 20 | 10 36 |
| 7 | 1 5 | 14 26 | 1 36 | 13 39 | 1 43 | 21 4 | 10 26 |
| 10 | 1 4 | 13 37 | 1 29 | 12 15 | 1 21 | 19 38 | 10 17 |
| 13 | 1 2 | 12 47 | 1 22 | 10 50 | 0 50 | 18 5 | 10 7 |
| 16 | 1 0 | 11 55 | 1 13 | 9 23 | 0 13 | 16 31 | 9 57 |
| 19 | 0 58 | 11 3 | 1 3 | 7 54 | 0 N 33 | 15 7 | 9 48 |
| 22 | 0 56 | 10 9 | 0 52 | 6 24 | 1 25 | 14 3 | 9 38 |
| 25 | 0 54 | 9 15 | 0 41 | 4 52 | 2 18 | 13 29 | 9 29 |
| 28 | 0 52 | 8 20 | 0 29 | 3 19 | 3 3 | 13 29 | 9 19 |
| 31 | 0 50 | 7 25 | 0 16 | 1 46 | 3 31 | 14 0 | 9 10 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | | |
| 1 | 10 54 42 | 1 r 41 | 19 m 38 | 21 m 0 | 24 w 2 | ☉ ♂ h | * | | Δ | | | | |
| 2 | 10 R 37 | 1 48 | 20 25 | 22 12 | 25 40 | | | * | | ♂ | | | * |
| 3 | 10 32 | 1 55 | 21 12 | 23 24 | 27 24 | ♂ ☐ h | ☐ | | ☐ | | | | |
| 4 | 10 27 | 2 3 | 21 59 | 24 36 | 28 48 | | | | | | * | * | ☐ |
| 5 | 10 22 | 2 11 | 22 46 | 25 47 | 0 m 23 | ♀ ☐ h | Δ | | * | | | | |
| 6 | 10 17 | 2 19 | 23 33 | 26 59 | 1 56 | ♀ * ♈ | | ♂ | | * | ☐ | ☐ | Δ |
| 7 | 10 12 | 2 27 | 24 20 | 28 10 | 3 28 | | | | | | | | |
| 8 | 10 7 | 2 36 | 25 7 | 29 22 | 4 58 | ♂ ☐ h | | | | | Δ | Δ | |
| 9 | 10 2 | 2 45 | 25 54 | 0 x 34 | 6 26 | | | | ♂ | ☐ | | | |
| 10 | 9 57 | 2 54 | 26 41 | 1 45 | 7 53 | | ♂ | * | | | | | |
| 11 | 9 52 | 3 3 | 27 28 | 2 56 | 9 17 | ☉ Δ h | | | | Δ | | | ♂ |
| 12 | 9 48 | 3 11 | 28 15 | 4 7 | 10 35 | | | ☐ | | | | | |
| 13 | 9 43 | 3 19 | 29 2 | 5 17 | 11 50 | ♀ P h | | | | | ♂ | ♂ | |
| 14 | 9 38 | 3 28 | 29 49 | 6 28 | 13 1 | | | | * | | | | |
| 15 | 9 33 | 3 38 | 0 x 36 | 7 38 | 14 8 | | Δ | Δ | | | | | |
| 16 | 9 29 | 3 48 | 1 23 | 8 49 | 15 8 | | | | ☐ | ♂ | | | |
| 17 | 9 24 | 3 57 | 2 10 | 9 59 | 16 0 | ♀ Δ h | | | | | | | Δ |
| 18 | 9 20 | 4 7 | 2 57 | 11 10 | 16 44 | | ☐ | | | | Δ | | |
| 19 | 9 16 | 4 17 | 3 44 | 12 20 | 17 19 | | | | Δ | | | Δ | ☐ |
| 20 | 9 12 | 4 27 | 4 31 | 13 30 | 17 46 | | * | ♂ | | | | | |
| 21 | 9 8 | 4 37 | 5 18 | 14 40 | 18 1 | | | | | Δ | ☐ | | |
| 22 | 9 4 | 4 47 | 6 5 | 15 50 | 18 3 | | | | | | | ☐ | * |
| 23 | 9 0 | 4 57 | 6 52 | 17 0 | 17 R 59 | | | | ♂ | ☐ | * | | * |
| 24 | 8 56 | 5 7 | 7 39 | 18 9 | 17 42 | | | Δ | | | | * | |
| 25 | 8 52 | 5 17 | 8 26 | 19 18 | 17 12 | ☉ * ♈ | ♂ | | | * | | | |
| 26 | 8 48 | 5 28 | 9 13 | 20 27 | 16 32 | ♂ Δ h | | | | | | | ♂ |
| 27 | 8 44 | 5 39 | 10 0 | 21 36 | 15 42 | ♀ * h | | ☐ | | | | | |
| 28 | 8 40 | 5 50 | 10 47 | 22 45 | 14 44 | | | | Δ | | ♂ | | |
| 29 | 8 36 | 6 1 | 11 34 | 23 54 | 13 38 | ☉ P h | | * | | | | ♂ | |
| 30 | 8 32 | 6 12 | 12 20 | 25 2 | 12 28 | | * | | ☐ | ♂ | | | * |
| 31 | 8 28 | 6 23 | 13 7 | 26 10 | 11 16 | ☉ ♂ ♄ | | | | | | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 16 | 17 N 48 | 0 S 30 | 22 N 42 | 1 S 11 | 1 N 32 |
| 4 | 16 | 15 | 0 16 | 17 48 | 0 29 | 22 43 | 1 11 | 1 4 |
| 7 | 16 | 15 | 0 15 | 17 48 | 0 29 | 22 44 | 1 10 | 2 0 |
| 10 | 16 | 14 | 0 15 | 17 49 | 0 29 | 22 45 | 1 9 | 2 15 |
| 13 | 16 | 14 | 0 15 | 17 49 | 0 28 | 22 45 | 1 9 | 2 50 |
| 16 | 16 | 13 | 0 15 | 17 50 | 0 28 | 22 46 | 1 8 | 2 45 |
| 19 | 16 | 12 | 0 15 | 17 51 | 0 27 | 22 47 | 1 8 | 3 0 |
| 22 | 16 | 12 | 0 15 | 17 52 | 0 27 | 22 48 | 1 7 | 3 15 |
| 25 | 16 | 11 | 0 15 | 17 53 | 0 26 | 22 49 | 1 7 | 3 30 |
| 28 | 16 | 10 | 0 15 | 17 55 | 0 26 | 22 49 | 1 7 | 3 45 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|-----------------------|--------------|--------------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 20 46 33 | 12 ^m 38 59 | 17 S 2 | 8 8 6 | 2 N 35 | 16 N 40 | 21 8 5 |
| 2 | M | 20 50 30 | 13 39 50 | 16 44 | 22 10 | 3 35 | 21 47 | 21 5 |
| 3 | Tu | 20 54 26 | 14 40 40 | 16 27 | 6 11 9 | 4 22 | 25 39 | 21 0 |
| 4 | W | 20 58 23 | 15 41 28 | 16 9 | 20 1 | 4 52 | 27 57 | 21 6 |
| 5 | Th | 21 2 19 | 16 42 14 | 15 51 | 3 55 45 | 5 6 | 28 30 | 21 12 |
| 6 | F | 21 6 16 | 17 42 59 | 15 32 | 17 19 | 5 2 | 27 20 | 21 18 |
| 7 | S | 21 10 12 | 18 43 42 | 15 13 | 0 52 41 | 4 42 | 24 36 | 21 24 |
| 8 | S | 21 14 9 | 19 44 24 | 14 55 | 13 50 | 4 7 | 20 37 | 21 30 |
| 9 | M | 21 18 5 | 20 45 5 | 14 35 | 26 43 | 3 19 | 15 44 | 21 36 |
| 10 | Tu | 21 22 2 | 21 45 44 | 14 16 | 9 ^m 20 | 2 23 | 10 17 | 21 42 |
| 11 | W | 21 25 59 | 22 46 22 | 13 56 | 21 42 | 1 21 | 4 32 | 21 48 |
| 12 | Th | 21 29 55 | 23 46 59 | 13 36 | 3 51 | 0 16 | 1 S 17 | 21 54 |
| 13 | F | 21 33 52 | 24 47 34 | 13 16 | 15 48 | 0 S 49 | 6 58 | 21 0 |
| 14 | S | 21 37 48 | 25 48 9 | 12 56 | 27 39 | 1 51 | 12 22 | 21 6 |
| 15 | S | 21 41 45 | 26 48 41 | 12 35 | 9 ^m 27 | 2 48 | 17 19 | 21 12 |
| 16 | M | 21 45 41 | 27 49 13 | 12 14 | 21 18 | 3 39 | 21 37 | 21 18 |
| 17 | Tu | 21 49 38 | 28 49 43 | 11 54 | 3 16 | 4 20 | 25 5 | 21 24 |
| 18 | W | 21 53 35 | 29 50 13 | 11 32 | 15 27 | 4 50 | 27 29 | 21 30 |
| 19 | Th | 21 57 31 | 0 ^m 50 40 | 11 11 | 27 55 | 5 8 | 28 35 | 21 36 |
| 20 | F | 22 1 28 | 1 51 7 | 10 50 | 10 ^m 44 | 5 11 | 28 11 | 21 42 |
| 21 | S | 22 5 24 | 2 51 32 | 10 28 | 23 57 | 4 58 | 26 13 | 21 48 |
| 22 | S | 22 9 21 | 3 51 55 | 10 6 | 7 ^m 35 | 4 28 | 22 42 | 21 54 |
| 23 | M | 22 13 17 | 4 52 17 | 9 44 | 21 35 | 3 41 | 17 48 | 21 0 |
| 24 | Tu | 22 17 14 | 5 52 37 | 9 22 | 5 ^m 54 | 2 39 | 11 49 | 21 6 |
| 25 | W | 22 21 10 | 6 52 55 | 9 0 | 20 27 | 1 26 | 5 7 | 21 12 |
| 26 | Th | 22 25 7 | 7 53 11 | 8 37 | 5 6 | 0 7 | 1 N 55 | 21 18 |
| 27 | F | 22 29 4 | 8 53 26 | 8 15 | 19 46 | 1 N 13 | 8 52 | 21 24 |
| 28 | S | 22 33 0 | 9 53 38 | 7 52 | 4 8 21 | 2 28 | 15 18 | 21 30 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 S 49 | 7 S 6 | 0 S 11 | 1 S 15 | 3 N 38 | 14 S 15 | 9 r 7 |
| 4 | 0 47 | 6 10 | 0 N 2 | 0 N 19 | 3 36 | 15 8 | 8 57 |
| 7 | 0 46 | 5 14 | 0 17 | 1 52 | 3 19 | 16 3 | 8 48 |
| 10 | 0 44 | 4 17 | 0 32 | 3 25 | 2 52 | 16 51 | 8 38 |
| 13 | 0 42 | 3 21 | 0 48 | 4 56 | 2 14 | 17 28 | 8 29 |
| 16 | 0 40 | 2 24 | 1 4 | 6 27 | 1 35 | 17 54 | 8 19 |
| 19 | 0 38 | 1 26 | 1 21 | 7 57 | 0 59 | 18 6 | 8 10 |
| 22 | 0 36 | 0 30 | 1 38 | 9 24 | 0 25 | 18 8 | 8 0 |
| 25 | 0 34 | 0 N 27 | 1 56 | 10 50 | 0 S 7 | 17 54 | 7 50 |
| 28 | 0 32 | 1 24 | 2 13 | 12 14 | 0 36 | 17 28 | 7 41 |

| D
M | h | ♄ | ♂ | ♀ | ♅ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♅ | ♁ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 8 24 | 6 r 34 | 13 * 53 | 27 * 18 | 10 m 2 | | ☐ | | * | | * | | ☐ |
| 2 | 8 R 21 | 6 45 | 15 40 | 28 26 | 8 R 49 | | | ♂ | | | * | | |
| 3 | 8 17 | 6 56 | 15 27 | 29 34 | 7 39 | | | | | * | | | Δ |
| 4 | 8 14 | 7 7 | 16 13 | 0 r 41 | 6 35 | ☉ ∠ ♀ | Δ | | | | ☐ | | |
| 5 | 8 11 | 7 19 | 17 0 | 1 48 | 5 38 | ☉ P ♀ | | | ♂ | ☐ | | ☐ | |
| 6 | 8 7 | 7 31 | 17 46 | 2 55 | 4 47 | | | * | | | Δ | | |
| 7 | 8 4 | 7 43 | 18 33 | 4 2 | 4 0 | | | | | | Δ | | ♂ |
| 8 | 8 1 | 7 55 | 19 19 | 5 9 | 3 28 | | ♂ | | | Δ | | | |
| 9 | 7 58 | 8 7 | 20 6 | 6 15 | 3 1 | ♄ ☐ h | | ☐ | | | | | |
| 10 | 7 55 | 8 19 | 20 52 | 7 21 | 2 42 | ☉ ☐ h | | | * | | | | |
| 11 | 7 53 | 8 31 | 21 39 | 8 27 | 2 30 | ☉ ☐ h | | Δ | | | ♂ | | |
| 12 | 7 50 | 8 43 | 22 25 | 9 32 | 2 28 | ☉ ∠ ♄ | | | ☐ | ♂ | | | Δ |
| 13 | 7 47 | 8 55 | 23 11 | 10 37 | 2 D 33 | | | | | | ♂ | | |
| 14 | 7 45 | 9 8 | 23 58 | 11 42 | 2 39 | | Δ | | | | | | ☐ |
| 15 | 7 42 | 9 21 | 24 44 | 12 47 | 2 54 | | | | Δ | | | | |
| 16 | 7 40 | 9 34 | 25 30 | 13 52 | 3 16 | | | ♂ | | | Δ | | |
| 17 | 7 38 | 9 47 | 26 17 | 14 56 | 3 44 | | ☐ | | | | | | * |
| 18 | 7 36 | 9 59 | 27 3 | 16 0 | 4 16 | | | | | Δ | | Δ | |
| 19 | 7 34 | 10 12 | 27 49 | 17 4 | 4 53 | | * | | | | ☐ | | |
| 20 | 7 32 | 10 25 | 28 36 | 18 7 | 5 35 | | | ♂ | ☐ | | | | |
| 21 | 7 30 | 10 38 | 29 22 | 19 9 | 6 21 | | | Δ | | | * | ☐ | |
| 22 | 7 28 | 10 51 | 0 r 8 | 20 11 | 7 10 | | | | | * | | | ♂ |
| 23 | 7 26 | 11 4 | 0 54 | 21 13 | 8 2 | ☉ P ♀ | | ☐ | | | | * | |
| 24 | 7 25 | 11 17 | 1 40 | 22 15 | 8 57 | | ♂ | | Δ | | | | |
| 25 | 7 24 | 11 30 | 2 26 | 23 16 | 9 55 | | | * | | | | | |
| 26 | 7 23 | 11 43 | 3 12 | 24 16 | 10 56 | ☉ Δ h | | | ☐ | | ♂ | | * |
| 27 | 7 22 | 11 56 | 3 58 | 25 17 | 12 0 | ♅ * ♄ | | | | ♂ | | ♂ | |
| 28 | 7 21 | 12 10 | 4 44 | 26 17 | 13 6 | | * | | * | | | | |

MARCH XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|---|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 15 | 17 N 55 | 0 S 26 | 22 N 49 | 1 S 6 | 3 N 53 |
| 4 | 16 | 8 | 0 15 | 17 56 | 0 26 | 22 50 | 1 6 | 4 9 |
| 7 | 16 | 8 | 0 15 | 17 58 | 0 25 | 22 50 | 1 6 | 4 25 |
| 10 | 16 | 7 | 0 15 | 17 59 | 0 24 | 22 51 | 1 5 | 4 41 |
| 13 | 16 | 6 | 0 15 | 18 1 | 0 24 | 22 51 | 1 5 | 4 56 |
| 16 | 16 | 5 | 0 15 | 18 3 | 0 24 | 22 52 | 1 5 | 5 14 |
| 19 | 16 | 4 | 0 15 | 18 5 | 0 23 | 22 52 | 1 5 | 5 30 |
| 22 | 16 | 4 | 0 15 | 18 7 | 0 23 | 22 52 | 1 5 | 5 47 |
| 25 | 16 | 3 | 0 15 | 18 9 | 0 23 | 22 52 | 1 5 | 6 3 |
| 28 | 16 | 2 | 0 14 | 18 11 | 0 22 | 22 52 | 1 4 | 6 20 |
| 31 | 16 | 1 | 0 14 | 18 13 | 0 22 | 22 52 | 1 4 | 6 36 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 22 36 57 | 10 x 53 49 | 7 S 29 | 18 x 46 | 3 S 32 | 20 N 49 | 21 x 31 |
| 2 | M | 22 40 53 | 11 53 57 | 7 6 | 2 II 58 | 4 23 25 | 4 21 33 | |
| 3 | Tu | 22 44 50 | 12 54 4 | 6 43 | 16 55 | 4 57 27 | 44 21 35 | |
| 4 | W | 22 48 46 | 13 54 8 | 6 20 | 0 38 | 5 13 28 | 41 21 36 | |
| 5 | Th | 22 52 43 | 14 54 10 | 5 57 | 14 5 | 5 12 27 | 53 21 35 | |
| 6 | F | 22 56 39 | 15 54 10 | 5 34 | 27 17 | 4 54 25 | 32 21 40 | |
| 7 | S | 23 0 36 | 16 54 7 | 5 11 | 10 15 | 4 22 21 | 53 21 42 | |
| 8 | S | 23 4 33 | 17 54 3 | 4 47 | 23 0 | 3 36 17 | 16 21 44 | |
| 9 | M | 23 8 29 | 18 53 56 | 4 24 | 5 33 | 2 41 11 | 59 21 46 | |
| 10 | Tu | 23 12 26 | 19 53 48 | 4 0 | 17 55 | 1 39 6 | 19 21 48 | |
| 11 | W | 23 16 22 | 20 53 38 | 3 37 | 0 3 | 0 34 0 | 30 21 50 | |
| 12 | Th | 23 20 19 | 21 53 25 | 3 13 | 12 4 | 0 S 33 | 5 S 17 | 21 52 |
| 13 | F | 23 24 15 | 22 53 11 | 2 50 | 23 58 | 1 37 10 | 49 21 54 | |
| 14 | S | 23 28 12 | 23 52 55 | 2 26 | 5 48 | 2 37 15 | 56 21 56 | |
| 15 | S | 23 32 8 | 24 52 37 | 2 2 | 17 37 | 3 30 20 | 28 21 58 | |
| 16 | M | 23 36 5 | 25 52 17 | 1 39 | 29 28 | 4 15 24 | 12 22 0 | |
| 17 | Tu | 23 40 1 | 26 51 56 | 1 15 | 11 26 | 4 48 26 | 56 22 3 | |
| 18 | W | 23 43 58 | 27 51 33 | 0 51 | 23 35 | 5 10 28 | 28 22 5 | |
| 19 | Th | 23 47 55 | 28 51 8 | 0 27 | 6 0 | 5 17 28 | 37 22 7 | |
| 20 | F | 23 51 51 | 29 50 41 | 0 4 | 18 46 | 5 10 27 | 16 22 10 | |
| 21 | S | 23 55 48 | 0 r 50 13 | 0 N 20 | 1 55 | 4 46 24 | 24 22 12 | |
| 22 | S | 23 59 44 | 1 49 43 | 0 44 | 15 30 | 4 6 20 | 7 22 14 | |
| 23 | M | 0 3 41 | 2 49 11 | 1 7 | 29 31 | 3 10 14 | 37 22 17 | |
| 24 | Tu | 0 7 37 | 3 48 37 | 1 31 | 13 x 57 | 2 1 8 | 10 22 19 | |
| 25 | W | 0 11 34 | 4 48 1 | 1 55 | 28 43 | 0 42 1 | 9 22 21 | |
| 26 | Th | 0 15 30 | 5 47 23 | 2 18 | 13 r 42 | 0 N 41 | 6 N 31 | 22 23 |
| 27 | F | 0 19 27 | 6 46 43 | 2 42 | 28 45 | 2 2 12 | 56 22 26 | |
| 28 | S | 0 23 24 | 7 46 1 | 3 5 | 13 x 44 | 3 14 19 | 3 22 29 | |
| 29 | S | 0 27 20 | 8 45 16 | 3 28 | 28 32 | 4 12 23 | 56 22 32 | |
| 30 | M | 0 31 17 | 9 44 29 | 3 52 | 13 II 1 | 4 52 27 | 13 22 35 | |
| 31 | Tu | 0 35 13 | 10 43 40 | 4 15 | 27 9 | 5 14 28 | 39 22 38 | |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 31 | 1 N 43 | 2 N 19 | 12 N 41 | 0 3 45 | 17 S 17 | 7 r 38 |
| 4 | 0 29 | 2 39 | 2 37 | 14 1 | 1 9 | 16 36 | 7 29 |
| 7 | 0 27 | 3 35 | 2 56 | 15 18 | 1 30 | 15 42 | 7 19 |
| 10 | 0 25 | 4 30 | 3 14 | 16 32 | 1 47 | 14 36 | 7 10 |
| 13 | 0 22 | 5 25 | 3 32 | 17 42 | 2 0 | 13 19 | 7 0 |
| 16 | 0 20 | 6 19 | 3 50 | 18 49 | 2 10 | 11 50 | 6 51 |
| 19 | 0 18 | 7 13 | 4 8 | 19 52 | 2 16 | 10 10 | 6 41 |
| 22 | 0 16 | 8 5 | 4 26 | 20 50 | 2 18 | 8 19 | 6 31 |
| 25 | 0 14 | 8 57 | 4 42 | 21 44 | 2 16 | 6 17 | 6 22 |
| 28 | 0 12 | 9 48 | 4 58 | 22 34 | 2 10 | 4 5 | 6 12 |
| 31 | 0 10 | 10 39 | 5 13 | 23 18 | 1 59 | 1 43 | 6 3 |

| D
M | h | | ♄ | | ♂ | | ♀ | | Mutual
Aspects. | Lunar Aspects. | | | | | | |
|--------|--------|---------|--------|---------|---------|-------|-------|-------|--------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♁ | ♂ |
| 1 | 7 20 | 12 r 23 | 5 r 30 | 27 r 17 | 14 = 14 | ♂ ∠ ♄ | | | | ☉ | | | | | | ☐ |
| 2 | 7 19 | 12 36 | 6 16 | 28 16 | 15 24 | ♂ ∠ ♄ | | | | ☉ | | | | * | | ☐ |
| 3 | 7 18 | 12 50 | 7 1 | 29 15 | 16 36 | ♂ ☐ ♄ | | | | ☐ | | | * | | | Δ |
| 4 | 7 18 | 13 3 | 7 47 | 0 13 | 17 50 | | | | | | ☉ | | | * | | |
| 5 | 7 18 | 13 17 | 8 33 | 1 11 | 19 6 | | | | | Δ | | | ☐ | ☐ | | |
| 6 | 7 17 | 13 31 | 9 19 | 2 8 | 20 23 | | | | | | | | | | | ☐ |
| 7 | 7 17 | 13 44 | 10 4 | 3 5 | 21 42 | ♀ ☐ ♄ | | | | | | | | | | ♂ |
| 8 | 7 17 | 13 58 | 10 50 | 4 2 | 23 8 | ☉ P ♄ | | | | | | | | | | ♂ |
| 9 | 7 17 | 14 12 | 11 35 | 4 57 | 24 25 | ☉ P ♂ | | | | | | | | | Δ | |
| 10 | 7 D 17 | 14 26 | 12 21 | 5 52 | 25 49 | | | | | | | | | | | |
| 11 | 7 17 | 14 40 | 13 6 | 6 46 | 27 14 | | | | | | | | | | | |
| 12 | 7 18 | 14 54 | 13 52 | 7 39 | 28 40 | ☉ * ♄ | | | | | | | | | | |
| 13 | 7 18 | 15 8 | 14 37 | 8 32 | 0 8 | ♀ ∠ ♄ | | | | | | | | | | |
| 14 | 7 19 | 15 22 | 15 32 | 9 25 | 1 37 | ♂ ∠ ♄ | | | | | | | | | ♂ | Δ |
| 15 | 7 20 | 15 36 | 16 7 | 10 17 | 3 8 | | | | | | | | | | | |
| 16 | 7 21 | 15 50 | 16 53 | 11 8 | 4 40 | | | | | Δ | | | | | | |
| 17 | 7 22 | 16 4 | 17 38 | 11 58 | 6 13 | | | | | | | | | | | ☐ |
| 18 | 7 23 | 16 18 | 18 23 | 12 47 | 7 47 | ♀ Δ ♄ | | | | ☐ | | | | Δ | | |
| 19 | 7 24 | 16 32 | 19 8 | 13 34 | 9 23 | | | | | | ♂ | | | | | * |
| 20 | 7 25 | 16 46 | 19 53 | 14 20 | 11 0 | | | | | | Δ | | ☐ | ☐ | Δ | |
| 21 | 7 26 | 17 0 | 20 37 | 15 7 | 12 39 | | | | | * | | | | | | |
| 22 | 7 28 | 17 15 | 21 22 | 15 52 | 14 19 | ♀ P ♂ | | | | | ☐ | | * | | ☐ | |
| 23 | 7 29 | 17 29 | 22 7 | 16 36 | 16 0 | | | | | | | | | * | | |
| 24 | 7 30 | 17 43 | 22 52 | 17 20 | 17 42 | ♀ * ♄ | | | | | | Δ | | * | | ♂ |
| 25 | 7 32 | 17 58 | 23 37 | 18 4 | 19 25 | ♀ P ♄ | | | | ☉ | * | | | | | |
| 26 | 7 34 | 18 12 | 24 31 | 18 47 | 21 10 | | | | | | | ☐ | ♂ | | | |
| 27 | 7 36 | 18 26 | 25 6 | 19 30 | 22 56 | ♀ * ♄ | | | | | | * | | ♂ | | |
| 28 | 7 38 | 18 41 | 25 51 | 20 11 | 24 44 | ☉ ☐ ♄ | | | | | | * | | ♂ | | |
| 29 | 7 40 | 18 55 | 26 35 | 20 50 | 26 33 | ☉ P ♄ | | | | | ♂ | | | | | ☐ |
| 30 | 7 42 | 19 9 | 27 20 | 21 25 | 28 23 | | | | | * | | | * | | | |
| 31 | 7 45 | 19 24 | 28 5 | 21 59 | 0 r 15 | | | | | | | | * | | | ☐ |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Decln. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 08 9 | 10 N55 | 5 N17 | 23 N32 | 1 S55 | 0 S53 | 67 0 |
| 4 | 0 7 | 11 44 | 5 31 | 24 9 | 1 37 | 1 N40 | 5 50 |
| 7 | 0 8 | 12 31 | 5 43 | 24 40 | 1 17 | 4 21 | 5 41 |
| 10 | 0 8 | 13 18 | 5 51 | 25 5 | 0 50 | 7 6 | 5 31 |
| 13 | 0 1 | 14 8 | 5 59 | 25 24 | 0 21 | 9 53 | 5 22 |
| 16 | 0 N 1 | 14 47 | 6 3 | 25 34 | 0 N12 | 12 38 | 5 12 |
| 19 | 0 3 | 15 30 | 6 4 | 25 36 | 0 45 | 15 13 | 5 2 |
| 22 | 0 5 | 16 11 | 6 0 | 25 29 | 1 16 | 17 35 | 4 53 |
| 25 | 0 7 | 16 51 | 5 50 | 25 12 | 1 44 | 19 38 | 4 43 |
| 28 | 0 9 | 17 29 | 5 36 | 24 45 | 2 8 | 21 20 | 4 34 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ | | |
| | ° | ' | ° | ' | ° | ' | | | | | | | | | |
| 1 | 7 548 | 19 38 | 23 49 | 22 33 | 2 8 | 8 | ♀ ☉ ☿ | ☐ | | ☿ | | | | ☿ | |
| 2 | 7 51 | 19 53 | 20 34 | 23 5 | 4 3 | | | ☐ | ☿ | | ☐ | | | | |
| 3 | 7 54 | 20 7 | 0 18 | 23 36 | 5 59 | | | | | | | | | | Δ |
| 4 | 7 57 | 20 21 | 1 32 | 24 7 | 7 56 | | ☿ ☐ ♀ | Δ | ☐ | | Δ | | | ☐ | |
| 5 | 8 0 | 20 36 | 1 47 | 24 35 | 9 55 | | | | | ☿ | | Δ | | | |
| 6 | 8 3 | 20 50 | 2 31 | 25 21 | 11 55 | | | | | | | | | | |
| 7 | 8 6 | 21 5 | 3 15 | 25 28 | 13 56 | | | Δ | | | | | | | Δ |
| 8 | 8 9 | 21 19 | 3 59 | 25 52 | 15 58 | ☉ P ♀ | | | ☐ | | | | | | |
| 9 | 8 12 | 21 34 | 4 43 | 26 14 | 18 2 | | | ☿ | | | | | | | ☿ |
| 10 | 8 15 | 21 48 | 5 27 | 26 34 | 20 7 | ☉ ☉ ☿ | | | | | | | | | |
| 11 | 8 18 | 22 3 | 6 11 | 26 15 | 22 13 | ☿ ☉ ☿ | | | | | | | | | |
| 12 | 8 22 | 22 17 | 6 55 | 27 5 | 24 19 | ☉ ☉ ☿ | | ☿ | | | | | | | ☿ |
| 13 | 8 26 | 22 32 | 7 39 | 27 17 | 26 25 | | | | | | | | | | |
| 14 | 8 30 | 22 46 | 8 22 | 27 28 | 28 32 | ☿ ☿ ☿ | Δ | | | | | | | | |
| 15 | 8 34 | 23 1 | 9 6 | 27 38 | 0 38 | | | | | | | | | | Δ |
| 16 | 8 38 | 23 15 | 9 50 | 27 46 | 2 45 | | | | ☿ | | | Δ | | | |
| 17 | 8 42 | 23 30 | 10 33 | 27 51 | 4 51 | ☿ ☐ ☿ | ☐ | Δ | | | ☐ | | Δ | | |
| 18 | 8 46 | 23 44 | 11 17 | 27 53 | 6 56 | | | | | | | ☐ | | ☐ | |
| 19 | 8 50 | 23 58 | 12 1 | 27 54 | 9 0 | ☿ ☿ ☿ | ☿ | ☐ | | | ☿ | | | ☐ | |
| 20 | 8 54 | 24 13 | 12 44 | 27 51 | 11 3 | | | | | Δ | | ☿ | | | ☿ |
| 21 | 8 58 | 24 27 | 13 28 | 27 47 | 13 5 | ☿ ☉ ☿ | | | | | | | | | |
| 22 | 9 2 | 24 41 | 14 11 | 27 41 | 15 5 | | | | | | | | | | |
| 23 | 9 7 | 24 56 | 14 55 | 27 31 | 17 1 | ☿ P ☿ | | | | | | | | | |
| 24 | 9 12 | 25 10 | 15 38 | 27 18 | 18 54 | | | ☉ | | | | | | | |
| 25 | 9 17 | 25 24 | 16 21 | 27 8 | 20 44 | | | | | ☐ | | | | | |
| 26 | 9 22 | 25 39 | 17 5 | 28 45 | 22 32 | | | | | | | | | | |
| 27 | 9 27 | 25 53 | 17 48 | 28 25 | 24 17 | ☿ ☉ ☿ | | | | | | ☿ | | | |
| 28 | 9 32 | 26 7 | 18 31 | 28 4 | 25 59 | ☿ ☉ ☿ | ☿ | | ☉ | | | | | | |
| 29 | 9 37 | 26 22 | 19 14 | 28 41 | 27 36 | | | ☿ | | ☐ | | ☿ | | ☿ | |
| 30 | 9 42 | 26 36 | 19 57 | 28 16 | 29 9 | ☉ ☉ ☿ | | | | | | | | | ☿ |

| 10 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1857. | |
|----------------|-------------------|-----------------------------------|-----------|------------|-------------|------------|-----------|-------------|------------|---------|------|--------|--|
| MAY XXXI DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | | | |
| 1 | 15 | 52 | 0 S 14 | 18 N 38 | 0 S 18 | 22 N 48 | 1 S 4 | 9 N 22 | | | | | |
| 4 | 15 | 52 | 0 14 | 18 40 | 0 18 | 22 47 | 1 4 | 9 37 | | | | | |
| 7 | 15 | 51 | 0 14 | 18 43 | 0 17 | 22 46 | 1 4 | 9 52 | | | | | |
| 10 | 15 | 51 | 0 14 | 18 45 | 0 17 | 22 45 | 1 4 | 10 7 | | | | | |
| 13 | 15 | 50 | 0 14 | 18 48 | 0 17 | 22 44 | 1 4 | 10 22 | | | | | |
| 16 | 15 | 49 | 0 14 | 18 51 | 0 16 | 22 43 | 1 4 | 10 36 | | | | | |
| 19 | 15 | 49 | 0 14 | 18 53 | 0 16 | 22 42 | 1 4 | 10 50 | | | | | |
| 22 | 15 | 48 | 0 14 | 18 56 | 0 15 | 22 40 | 1 4 | 11 4 | | | | | |
| 25 | 15 | 48 | 0 14 | 18 58 | 0 15 | 22 39 | 1 4 | 11 18 | | | | | |
| 28 | 15 | 47 | 0 14 | 19 1 | 0 14 | 22 37 | 1 4 | 11 31 | | | | | |
| 31 | 15 | 47 | 0 14 | 19 3 | 0 14 | 22 36 | 1 4 | 11 44 | | | | | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. | | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | " | |
| 1 | F | 2 | 37 | 26 | 11 8 | 1 38 | 15 N 9 | 16 51 | 3 N 56 | 19 N 32 | 24 8 | 16 | |
| 2 | S | 2 | 41 | 23 | 11 | 59 46 | 15 27 | 29 30 | 3 5 14 | 33 | 24 | 19 | |
| 3 | S | 2 | 45 | 20 | 12 | 57 53 | 15 45 | 11 50 | 2 7 9 | 5 | 24 | 23 | |
| 4 | M | 2 | 49 | 16 | 13 | 55 58 | 16 2 | 23 57 | 1 4 3 | 23 | 24 | 26 | |
| 5 | Tu | 2 | 53 | 13 | 14 | 54 1 | 16 19 | 5 54 | 0 8 1 | 2 S 21 | 24 | 29 | |
| 6 | W | 2 | 57 | 9 | 15 | 52 1 | 16 36 | 17 45 | 1 5 7 | 58 | 24 | 32 | |
| 7 | Th | 3 | 1 | 6 | 16 | 50 1 | 16 53 | 29 34 | 2 6 13 | 17 | 24 | 36 | |
| 8 | F | 3 | 5 | 2 | 17 | 47 58 | 17 9 | 11 23 | 3 1 18 | 7 | 24 | 39 | |
| 9 | S | 3 | 8 | 59 | 18 | 45 54 | 17 25 | 23 14 | 3 48 22 | 17 | 24 | 43 | |
| 10 | S | 3 | 12 | 55 | 19 | 43 48 | 17 41 | 5 9 | 4 26 25 | 32 | 24 | 46 | |
| 11 | M | 3 | 16 | 52 | 20 | 41 41 | 17 57 | 17 9 | 4 53 27 | 42 | 24 | 50 | |
| 12 | Tu | 3 | 20 | 49 | 21 | 39 33 | 18 12 | 29 18 | 5 6 28 | 34 | 24 | 54 | |
| 13 | W | 3 | 24 | 45 | 22 | 37 23 | 18 27 | 11 35 | 5 6 28 | 2 | 24 | 57 | |
| 14 | Th | 3 | 28 | 42 | 23 | 35 12 | 18 41 | 24 4 | 4 51 26 | 5 | 25 | 1 | |
| 15 | F | 3 | 32 | 38 | 24 | 33 0 | 18 55 | 6 48 | 4 21 22 | 48 | 25 | 5 | |
| 16 | S | 3 | 36 | 35 | 25 | 30 47 | 19 9 | 19 48 | 3 38 18 | 20 | 25 | 8 | |
| 17 | S | 3 | 40 | 31 | 26 | 28 32 | 19 23 | 3 8 | 2 42 12 | 53 | 25 | 12 | |
| 18 | M | 3 | 44 | 28 | 27 | 26 17 | 19 36 | 16 51 | 1 35 6 | 39 | 25 | 16 | |
| 19 | Tu | 3 | 48 | 24 | 28 | 24 1 | 19 49 | 0 58 | 0 21 0 | N 4 | 25 | 19 | |
| 20 | W | 3 | 52 | 21 | 29 | 21 43 | 20 2 | 15 28 | 0 N 57 | 6 58 | 25 | 23 | |
| 21 | Th | 3 | 56 | 18 | 0 19 | 24 20 | 14 0 8 | 19 | 2 12 13 | 39 | 25 | 26 | |
| 22 | F | 4 | 0 | 14 | 1 | 17 4 | 20 26 | 15 24 | 3 20 19 | 39 | 25 | 30 | |
| 23 | S | 4 | 4 | 11 | 2 | 14 43 | 20 38 | 0 35 | 4 13 24 | 25 | 25 | 33 | |
| 24 | S | 4 | 8 | 7 | 3 | 12 21 | 20 49 | 15 42 | 4 49 27 | 29 | 25 | 37 | |
| 25 | M | 4 | 12 | 4 | 4 | 9 57 | 21 0 | 0 34 | 5 4 28 | 32 | 25 | 40 | |
| 26 | Tu | 4 | 16 | 0 | 5 | 7 33 | 21 10 | 15 4 | 4 59 27 | 34 | 25 | 44 | |
| 27 | W | 4 | 19 | 57 | 6 | 5 7 | 21 21 | 29 6 | 4 36 24 | 52 | 25 | 47 | |
| 28 | Th | 4 | 23 | 53 | 7 | 2 39 | 21 30 | 12 39 | 3 59 20 | 50 | 25 | 51 | |
| 29 | F | 4 | 27 | 50 | 8 | 0 11 | 21 40 | 25 44 | 3 9 15 | 55 | 25 | 54 | |
| 30 | S | 4 | 31 | 47 | 8 | 57 40 | 21 49 | 8 23 | 2 12 10 | 28 | 25 | 57 | |
| 31 | S | 4 | 35 | 43 | 9 | 55 9 | 21 57 | 20 43 | 1 10 4 | 45 | 26 | 1 | |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 10 | 18 N 6 | 5 N 16 | 24 N 6 | 2 N 23 | 22 N 39 | 4 r 24 |
| 4 | 0 12 | 18 41 | 4 50 | 23 17 | 2 32 | 23 36 | 4 15 |
| 7 | 0 14 | 19 14 | 4 20 | 22 18 | 2 34 | 24 12 | 4 5 |
| 10 | 0 16 | 19 46 | 3 45 | 21 12 | 2 26 | 24 29 | 3 56 |
| 13 | 0 18 | 20 17 | 3 4 | 20 2 | 2 8 | 24 28 | 3 46 |
| 16 | 0 20 | 20 45 | 2 22 | 18 51 | 1 40 | 24 11 | 3 37 |
| 19 | 0 21 | 21 12 | 1 40 | 17 43 | 1 4 | 23 40 | 3 27 |
| 22 | 0 23 | 21 37 | 0 58 | 16 40 | 0 21 | 22 56 | 3 18 |
| 25 | 0 25 | 22 0 | 0 17 | 15 44 | 0 8 28 | 22 1 | 3 8 |
| 28 | 0 26 | 22 21 | 0 8 22 | 14 58 | 1 21 | 21 0 | 2 59 |
| 31 | 0 28 | 22 41 | 0 58 | 14 22 | 2 13 | 19 57 | 2 49 |

| D
M | ♂ | | ♀ | | ♂ | | Mutual
Aspta. | Lunar Aspects. | | | | | |
|--------|----------|---------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | ° | ' | ° | ' | ° | ' |
| 1 | 9 54 47 | 26 r 50 | 20 5 40 | 24 5 48 | 1 11 39 | 5 P h | ☉ | ☉ | | | ☉ | ☉ | |
| 2 | 9 52 27 | 5 21 | 24 18 | 2 5 | 5 P h | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 3 | 9 57 27 | 19 22 | 6 23 | 46 8 | 26 8 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 4 | 10 2 27 | 33 22 | 49 23 | 12 4 | 48 4 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 5 | 10 7 27 | 47 23 | 32 22 | 39 5 | 56 5 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 6 | 10 13 28 | 1 24 | 14 22 | 5 7 | 4 8 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 7 | 10 19 28 | 15 24 | 57 21 | 29 8 | 8 8 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 8 | 10 25 28 | 29 25 | 39 20 | 52 9 | 8 8 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 9 | 10 31 28 | 43 26 | 22 20 | 14 10 | 3 9 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 10 | 10 37 28 | 57 27 | 4 19 | 36 10 | 54 10 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 11 | 10 43 29 | 11 27 | 47 18 | 58 11 | 40 11 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 12 | 10 49 29 | 25 28 | 29 18 | 20 12 | 21 12 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 13 | 10 55 29 | 39 29 | 12 17 | 44 12 | 57 12 | | | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 14 | 11 1 29 | 53 29 | 54 17 | 9 13 | 29 13 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 15 | 11 7 0 | 8 7 | 0 36 | 16 34 | 13 56 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 16 | 11 13 0 | 20 1 | 18 16 | 0 14 | 18 14 | ☉ | | | | | | | |
| 17 | 11 20 0 | 34 1 | 0 15 | 27 14 | 35 14 | ☉ | | | | | | | |
| 18 | 11 26 0 | 47 2 | 42 14 | 54 14 | 47 14 | ☉ | | | | | | | |
| 19 | 11 32 1 | 1 3 | 24 14 | 24 14 | 56 14 | | | | | | | | |
| 20 | 11 39 1 | 14 4 | 6 18 | 57 14 | 57 14 | | | | | | | | |
| 21 | 11 45 1 | 28 4 | 48 13 | 21 14 | 55 14 | | | | | | | | |
| 22 | 11 52 1 | 41 5 | 30 13 | 10 14 | 49 14 | | | | | | | | |
| 23 | 11 58 1 | 55 6 | 12 12 | 49 14 | 38 14 | ☉ | | | | | | | |
| 24 | 12 4 2 | 8 6 | 54 12 | 30 14 | 22 14 | | | | | | | | |
| 25 | 12 11 2 | 21 7 | 36 12 | 15 14 | 3 14 | ☉ | | | | | | | |
| 26 | 12 18 2 | 35 8 | 18 12 | 2 18 | 41 18 | | | | | | | | |
| 27 | 12 25 2 | 48 9 | 59 11 | 50 13 | 15 13 | | | | | | | | |
| 28 | 12 32 3 | 1 9 | 41 11 | 39 12 | 47 12 | | | | | | | | |
| 29 | 12 39 3 | 14 10 | 23 11 | 33 12 | 17 12 | | | | | | | | |
| 30 | 12 46 3 | 27 11 | 4 11 | 28 11 | 45 11 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |
| 31 | 12 53 3 | 40 11 | 46 11 | 26 11 | 12 11 | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ | ☉ |

JUNE XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 14 | 19 N 4 | 0 S 14 | 22 N 35 | 1 S 5 | 11 N 48 |
| 4 | 15 | 48 | 0 14 | 19 6 | 0 14 | 22 33 | 1 5 | 12 1 |
| 7 | 15 | 47 | 0 14 | 19 9 | 0 13 | 22 32 | 1 5 | 12 13 |
| 10 | 15 | 47 | 0 14 | 19 11 | 0 13 | 22 30 | 1 5 | 12 26 |
| 13 | 15 | 47 | 0 14 | 19 13 | 0 13 | 22 27 | 1 6 | 12 37 |
| 16 | 15 | 46 | 0 14 | 19 15 | 0 12 | 22 25 | 1 6 | 12 49 |
| 19 | 15 | 46 | 0 14 | 19 18 | 0 12 | 22 23 | 1 6 | 13 0 |
| 22 | 15 | 46 | 0 14 | 19 20 | 0 12 | 22 21 | 1 7 | 13 11 |
| 25 | 15 | 46 | 0 14 | 19 22 | 0 12 | 22 18 | 1 7 | 13 21 |
| 28 | 15 | 46 | 0 14 | 19 24 | 0 12 | 22 16 | 1 7 | 13 31 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 4 39 40 | 10 52 36 | 22 N 6 | 2 47 | 0 N 6 | 1 S 1 | 26 4 |
| 2 | Tu | 4 43 36 | 11 50 2 | 22 14 14 | 41 | 0 S 57 | 6 40 | 26 7 |
| 3 | W | 4 47 33 | 12 47 27 | 22 21 26 | 30 | 1 57 12 | 3 | 26 11 |
| 4 | Th | 4 51 29 | 13 44 51 | 22 28 8 | m 18 | 2 52 17 | 0 | 26 14 |
| 5 | F | 4 55 26 | 14 42 14 | 22 35 20 | 8 | 3 39 21 | 19 | 26 15 |
| 6 | S | 4 59 23 | 15 39 35 | 22 41 2 | f 4 | 4 17 24 | 48 | 26 21 |
| 7 | S | 5 3 19 | 16 36 56 | 22 47 14 | 7 | 4 44 27 | 13 | 26 25 |
| 8 | M | 5 7 16 | 17 34 16 | 22 53 26 | 18 | 4 59 28 | 23 | 26 25 |
| 9 | Tu | 5 11 12 | 18 31 36 | 22 58 8 | w 38 | 4 59 28 | 9 | 26 31 |
| 10 | W | 5 15 9 | 19 28 54 | 23 3 21 | 9 | 4 46 26 | 30 | 26 35 |
| 11 | Th | 5 19 5 | 20 26 13 | 23 7 3 | m 50 | 4 18 23 | 29 | 26 35 |
| 12 | F | 5 23 2 | 21 23 31 | 23 11 16 | 43 | 3 36 19 | 17 | 26 41 |
| 13 | S | 5 26 58 | 22 20 48 | 23 14 29 | 50 | 2 43 14 | 5 | 26 44 |
| 14 | S | 5 30 55 | 23 18 5 | 23 17 13 | x 12 | 1 40 8 | 9 | 26 47 |
| 15 | M | 5 34 52 | 24 15 22 | 23 20 26 | 50 | 0 29 1 | 42 | 26 50 |
| 16 | Tu | 5 38 48 | 25 12 38 | 23 21 10 | r 48 | 0 N 44 | 4 N 57 | 26 53 |
| 17 | W | 5 42 45 | 26 9 55 | 23 24 25 | 4 | 1 57 11 | 31 | 26 57 |
| 18 | Th | 5 46 41 | 27 7 11 | 23 26 9 | x 37 | 3 3 17 | 36 | 27 0 |
| 19 | F | 5 50 38 | 28 4 27 | 23 27 24 | 24 | 3 58 22 | 44 | 27 3 |
| 20 | S | 5 54 34 | 29 1 42 | 23 27 9 | 18 | 4 37 26 | 26 | 27 6 |
| 21 | S | 5 58 31 | 29 58 58 | 23 28 24 | 11 | 4 58 28 | 17 | 27 9 |
| 22 | M | 6 2 27 | 0 56 13 | 23 27 8 | 54 | 4 58 28 | 7 | 27 12 |
| 23 | Tu | 6 6 24 | 1 53 27 | 23 27 23 | 19 | 4 39 26 | 2 | 27 15 |
| 24 | W | 6 10 21 | 2 50 42 | 23 26 7 | 20 | 4 4 22 | 23 | 27 18 |
| 25 | Th | 6 14 17 | 3 47 55 | 23 24 20 | 54 | 3 16 17 | 38 | 27 21 |
| 26 | F | 6 18 14 | 4 45 9 | 23 22 4 | m 1 | 2 18 12 | 12 | 27 24 |
| 27 | S | 6 22 10 | 5 42 22 | 23 20 16 | 42 | 1 16 6 | 25 | 27 27 |
| 28 | S | 6 26 7 | 6 39 35 | 23 18 29 | 4 | 0 11 0 | 33 | 27 30 |
| 29 | M | 6 30 3 | 7 36 47 | 23 14 11 | 9 | 0 S 53 | 5 S 13 | 27 33 |
| 30 | Tu | 6 34 0 | 8 33 59 | 23 11 23 | 4 | 1 53 10 | 44 | 27 36 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 28 | 22 N 47 | 1 S 17 | 14 N 12 | 2 S 29 | 19 N 36 | 2 r 46 |
| 4 | 0 30 | 23 3 | 1 37 | 13 48 | 3 12 | 18 39 | 2 36 |
| 7 | 0 32 | 23 18 | 2 3 | 13 34 | 3 44 | 17 54 | 2 27 |
| 10 | 0 33 | 23 31 | 2 24 | 13 29 | 4 6 | 17 23 | 2 17 |
| 13 | 0 35 | 23 43 | 2 43 | 13 31 | 4 16 | 17 10 | 2 7 |
| 16 | 0 36 | 23 52 | 2 59 | 13 40 | 4 16 | 17 15 | 1 58 |
| 19 | 0 38 | 23 59 | 3 12 | 13 55 | 4 5 | 17 35 | 1 48 |
| 22 | 0 39 | 24 5 | 3 22 | 14 15 | 3 45 | 18 10 | 1 39 |
| 25 | 0 41 | 24 8 | 3 30 | 14 38 | 3 18 | 19 13 | 1 29 |
| 28 | 0 42 | 24 10 | 3 35 | 15 5 | 2 46 | 19 47 | 1 20 |

| D
M | ♈ | | ♉ | | ♊ | | ♋ | | ♌ | | Mutual
Aspta. | its. | |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------------------|------|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ♈ | ♉ |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | ° | ' |
| 1 | 13 0 | 3 58 | 12 27 | 11 25 | 10 38 | 9 5 | ♈♉♊ | | | | | | |
| 2 | 13 7 | 4 51 | 8 11 | 28 10 | R 5 | | | | | | | | Δ |
| 3 | 13 14 | 4 18 | 13 50 | 11 33 | 9 33 | ♈♉♊ | | | | | | | |
| 4 | 13 21 | 4 30 | 14 31 | 11 11 | 9 1 | | | | | | | ♈ | |
| 5 | 13 28 | 4 43 | 15 12 | 11 57 | 8 30 | ♈♉♊ | | | | | | | |
| 6 | 13 35 | 4 55 | 15 54 | 12 8 | 8 2 | | | | | | | ♈ | ♈ |
| 7 | 13 42 | 5 8 | 16 35 | 12 24 | 7 37 | ♈♉♊ | ♈ | ♈ | | | | ♈ | |
| 8 | 13 49 | 5 20 | 17 16 | 12 40 | 7 16 | | | | | | | | |
| 9 | 13 57 | 5 33 | 17 57 | 12 56 | 6 58 | | | | | | | ♈ | Δ |
| 10 | 14 4 | 5 45 | 18 38 | 13 12 | 6 43 | | | | Δ | | | | |
| 11 | 14 12 | 5 58 | 19 19 | 13 28 | 6 32 | | | | | | | ♈ | Δ |
| 12 | 14 19 | 6 10 | 20 0 | 13 50 | 6 22 | | | | Δ | | | Δ | ♈ |
| 13 | 14 27 | 6 22 | 20 41 | 14 14 | 6 D 23 | ♈♉♊ | | | | | | ♈ | ♈ |
| 14 | 14 34 | 6 34 | 21 22 | 14 40 | 6 26 | ♈♉♊ | | | | | | ♈ | ♈ |
| 15 | 14 42 | 6 46 | 22 2 | 15 8 | 6 34 | ♈♉♊ | | | | | | ♈ | ♈ |
| 16 | 14 49 | 6 58 | 22 43 | 15 38 | 6 46 | | | | | | | ♈ | ♈ |
| 17 | 14 57 | 7 10 | 23 24 | 16 8 | 7 2 | | | | | | | ♈ | ♈ |
| 18 | 15 4 | 7 21 | 24 5 | 16 40 | 7 23 | ♈♉♊ | | | | | | ♈ | ♈ |
| 19 | 15 12 | 7 33 | 24 46 | 17 14 | 7 48 | | | | | | | ♈ | ♈ |
| 20 | 15 19 | 7 45 | 25 26 | 17 49 | 8 18 | | | | | | | ♈ | ♈ |
| 21 | 15 27 | 7 56 | 26 7 | 18 25 | 8 53 | | | | | | | ♈ | ♈ |
| 22 | 15 35 | 8 8 | 26 48 | 19 2 | 9 32 | | | | | | | ♈ | ♈ |
| 23 | 15 42 | 8 19 | 27 28 | 19 39 | 10 16 | ♈♉♊ | | | | | | ♈ | ♈ |
| 24 | 15 50 | 8 30 | 28 8 | 20 18 | 11 3 | | | | | | | ♈ | ♈ |
| 25 | 15 57 | 8 41 | 28 49 | 20 58 | 11 55 | | | | | | | ♈ | ♈ |
| 26 | 16 5 | 8 51 | 29 29 | 21 40 | 12 62 | | | | | | | ♈ | ♈ |
| 27 | 16 12 | 9 2 | 30 9 | 22 24 | 13 53 | | | | | | | ♈ | ♈ |
| 28 | 16 20 | 9 12 | 0 50 | 23 9 | 14 57 | | | | | | | ♈ | ♈ |
| 29 | 16 28 | 9 21 | 1 30 | 23 55 | 16 5 | ♈♉♊ | | | | | | ♈ | ♈ |
| 30 | 16 35 | 9 33 | 2 10 | 24 41 | 17 17 | | | | | | | ♈ | ♈ |

JULY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 8 13 | 19 N 26 | 0 8 12 | 22 N 13 | 1 8 8 | 13 N 41 |
| 4 | 15 | 45 | 0 13 | 19 28 | 0 12 | 22 11 | 1 8 | 13 50 |
| 7 | 15 | 45 | 0 13 | 19 29 | 0 11 | 22 8 | 1 8 | 13 59 |
| 10 | 15 | 45 | 0 13 | 19 31 | 0 11 | 22 5 | 1 9 | 14 7 |
| 13 | 15 | 45 | 0 13 | 19 33 | 0 11 | 22 2 | 1 9 | 14 15 |
| 16 | 15 | 46 | 0 13 | 19 34 | 0 10 | 21 59 | 1 10 | 14 23 |
| 19 | 15 | 46 | 0 13 | 19 36 | 0 10 | 21 58 | 1 10 | 14 30 |
| 22 | 15 | 46 | 0 13 | 19 37 | 0 10 | 21 53 | 1 11 | 14 37 |
| 25 | 15 | 46 | 0 13 | 19 39 | 0 10 | 21 50 | 1 11 | 14 43 |
| 28 | 15 | 47 | 0 13 | 19 40 | 0 9 | 21 47 | 1 12 | 14 49 |
| 31 | 15 | 47 | 0 13 | 19 41 | 0 9 | 21 44 | 1 12 | 14 55 |

| D | D | Sidereal | ☉ | ☉ | ♂ | ♂ | ♂ | ♂ |
|----|----|----------|----------|-----------|--------|---------|----------|-------|
| M | W | Time. | Long. | Declin | Long. | Lat. | Declin. | Long. |
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 6 37 56 | 9 31 10 | 23 N 7 | 4 m 54 | 2 8 49 | 15 8 49 | 27 33 |
| 2 | Th | 6 41 53 | 10 28 21 | 23 8 16 | 43 | 3 36 20 | 18 27 41 | 27 41 |
| 3 | F | 6 45 50 | 11 25 32 | 22 58 28 | 37 | 4 15 24 | 1 27 44 | 27 44 |
| 4 | S | 6 49 46 | 12 22 43 | 22 53 10 | 38 | 4 43 26 | 48 27 47 | 27 47 |
| 5 | S | 6 53 43 | 13 19 54 | 22 48 22 | 50 | 4 58 28 | 14 27 49 | 27 49 |
| 6 | M | 6 57 39 | 14 17 4 | 22 42 5 w | 13 | 5 0 28 | 21 27 53 | 27 53 |
| 7 | Tu | 7 1 36 | 15 14 15 | 22 35 17 | 49 | 4 47 27 | 1 27 55 | 27 55 |
| 8 | W | 7 5 32 | 16 11 26 | 22 29 0 m | 37 | 4 19 24 | 15 27 58 | 27 58 |
| 9 | Th | 7 9 29 | 17 8 37 | 22 22 13 | 36 | 3 38 20 | 14 28 0 | 28 0 |
| 10 | F | 7 13 26 | 18 5 49 | 22 14 26 | 48 | 2 45 15 | 10 28 3 | 28 3 |
| 11 | S | 7 17 22 | 19 3 1 | 22 6 10 | 10 | 1 41 9 | 20 28 6 | 28 6 |
| 12 | S | 7 21 19 | 20 0 14 | 21 58 23 | 43 | 0 31 2 | 58 28 8 | 28 8 |
| 13 | M | 7 25 15 | 20 57 27 | 21 50 7 | 28 | 0 N 42 | 3 N 36 | 28 11 |
| 14 | Tu | 7 29 12 | 21 54 41 | 21 41 21 | 24 | 1 53 10 | 6 28 13 | 28 13 |
| 15 | W | 7 33 8 | 22 51 55 | 21 31 5 | 32 | 2 59 16 | 11 28 16 | 28 16 |
| 16 | Th | 7 37 5 | 23 49 11 | 21 22 19 | 50 | 3 54 21 | 28 28 18 | 28 18 |
| 17 | F | 7 41 1 | 24 46 27 | 21 11 4 | 17 | 4 35 25 | 31 28 21 | 28 21 |
| 18 | S | 7 44 58 | 25 43 43 | 21 1 18 | 48 | 4 58 27 | 57 28 23 | 28 23 |
| 19 | S | 7 48 55 | 26 41 1 | 20 50 3 | 17 | 5 3 28 | 28 28 25 | 28 25 |
| 20 | M | 7 52 51 | 27 38 19 | 20 39 17 | 38 | 4 48 27 | 8 28 27 | 28 27 |
| 21 | Tu | 7 56 48 | 28 35 37 | 20 28 1 | 45 | 4 16 23 | 56 28 29 | 28 29 |
| 22 | W | 8 0 44 | 29 32 57 | 20 16 15 | 33 | 3 29 19 | 31 28 31 | 28 31 |
| 23 | Th | 8 4 41 | 0 30 17 | 19 4 28 | 58 | 2 32 14 | 12 28 33 | 28 33 |
| 24 | F | 8 8 37 | 1 27 37 | 19 51 12 | 1 | 1 28 8 | 25 28 35 | 28 35 |
| 25 | S | 8 12 34 | 2 24 58 | 19 38 24 | 41 | 0 21 2 | 26 28 37 | 28 37 |
| 26 | | | 3 9 22 | 19 25 7 | 3 | 0 8 45 | 3 8 29 | 28 39 |
| 27 | | | 4 19 42 | 19 12 19 | 9 | 1 48 9 | 10 28 41 | 28 41 |
| 28 | | | 5 17 4 | 18 58 1 m | 5 | 2 46 14 | 27 28 43 | 28 43 |
| 29 | | | 6 14 27 | 18 44 12 | 57 | 3 35 19 | 9 28 44 | 28 44 |
| 30 | | | 7 11 51 | 18 29 24 | 48 | 4 16 23 | 7 28 46 | 28 46 |
| 31 | | | 8 9 15 | 18 15 6 | 45 | 4 46 26 | 9 28 48 | 28 48 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | |
| 1 | 0 N 43 | 24 N 9 | 3 S 38 | 15 N 34 | 2 S 13 | 20 N 43 | 1 r 10 |
| 4 | 0 45 | 24 7 | 3 41 | 16 4 | 1 38 | 21 38 | 1 0 |
| 7 | 0 47 | 24 3 | 3 42 | 16 36 | 1 0 | 22 26 | 0 51 |
| 10 | 0 48 | 23 58 | 3 41 | 17 8 | 0 23 | 23 4 | 0 41 |
| 13 | 0 49 | 23 50 | 3 38 | 17 40 | 0 N 12 | 23 25 | 0 32 |
| 16 | 0 50 | 23 41 | 3 33 | 18 11 | 0 43 | 23 24 | 0 22 |
| 19 | 0 52 | 23 30 | 3 28 | 18 41 | 1 9 | 23 0 | 0 13 |
| 22 | 0 53 | 23 17 | 3 22 | 19 9 | 1 28 | 22 11 | 0 8 |
| 25 | 0 54 | 23 3 | 3 15 | 19 36 | 1 41 | 21 1 | 29 x 54 |
| 28 | 0 55 | 22 47 | 3 7 | 19 58 | 1 47 | 19 32 | 29 44 |
| 31 | 0 56 | 22 29 | 2 58 | 20 18 | 1 46 | 17 48 | 29 35 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | |
| 1 | 16 43 | 9 44 | 2 51 | 25 27 | 18 33 | ☉ * ♄ | Δ | | | ♈ | Δ | |
| 2 | 16 50 | 9 54 | 3 31 | 26 13 | 19 54 | | | | Δ | | | |
| 3 | 16 58 | 10 5 | 4 11 | 27 0 | 21 18 | | | ♈ | | | | ♈ |
| 4 | 17 6 | 10 15 | 4 51 | 27 46 | 22 46 | ♀ ☿ ♄ | | | | | | |
| 5 | 17 13 | 10 25 | 5 31 | 28 33 | 24 17 | | | | | | | ♈ |
| 6 | 17 21 | 10 35 | 6 11 | 29 21 | 25 52 | ♊ P h | | | | Δ | ♈ | |
| 7 | 17 29 | 10 45 | 6 51 | 0 11 | 27 31 | ♊ ♄ ♄ | ♈ | | ♈ | | | |
| 8 | 17 37 | 10 55 | 7 31 | 1 2 | 29 13 | | | Δ | | | | Δ |
| 9 | 17 44 | 11 5 | 8 11 | 1 54 | 0 59 | ☉ ♄ ♊ | | | | □ | | |
| 10 | 17 52 | 11 14 | 8 50 | 2 47 | 2 48 | ☉ ☿ h | | □ | | | | □ Δ |
| 11 | 18 0 | 11 23 | 9 30 | 3 41 | 4 39 | | | | | | * | Δ |
| 12 | 18 7 | 11 32 | 10 10 | 4 38 | 6 33 | | Δ | * | Δ | | | |
| 13 | 18 15 | 11 41 | 10 50 | 5 29 | 8 30 | | | | | | □ | * |
| 14 | 18 23 | 11 50 | 11 29 | 6 24 | 10 30 | | □ | | □ | | | |
| 15 | 18 31 | 11 59 | 12 9 | 7 19 | 12 32 | ♊ ☿ ♂ | | | | ☿ | * | |
| 16 | 18 38 | 12 8 | 12 49 | 8 14 | 14 35 | | * | | * | | | * |
| 17 | 18 46 | 12 17 | 13 28 | 9 10 | 16 40 | ♈ ♄ ♄ | | ☿ | | | | ☿ |
| 18 | 18 54 | 12 25 | 14 8 | 10 6 | 18 46 | ♊ ☿ h | | | | | | |
| 19 | 19 2 | 12 33 | 14 47 | 11 3 | 20 53 | | | | | | | |
| 20 | 19 10 | 12 41 | 15 27 | 12 0 | 23 0 | | | | ☿ | * | ☿ | ☿ |
| 21 | 19 18 | 12 49 | 16 6 | 12 58 | 25 8 | ☉ * ♄ | ☿ | * | | | | |
| 22 | 19 25 | 12 57 | 16 46 | 13 56 | 27 15 | | | | | □ | | * |
| 23 | 19 33 | 13 5 | 17 25 | 14 55 | 29 22 | ♊ * ♄ | | □ | | | | |
| 24 | 19 41 | 13 13 | 18 5 | 15 54 | 1 29 | ♊ ☿ ☉ | | | | Δ | | □ |
| 25 | 19 48 | 13 20 | 18 44 | 16 53 | 3 35 | | | Δ | * | | * | |
| 26 | 19 56 | 13 27 | 19 24 | 17 53 | 5 40 | | * | | | | | * |
| 27 | 20 4 | 13 34 | 20 3 | 18 53 | 7 44 | ♈ ☿ h | | | □ | | □ | Δ |
| 28 | 20 11 | 13 41 | 20 42 | 19 53 | 9 47 | ♊ ♄ h | □ | | | | | |
| 29 | 20 19 | 13 48 | 21 21 | 20 54 | 11 48 | | | | | ♈ | | |
| 30 | 20 27 | 13 55 | 22 0 | 21 55 | 13 48 | ♊ ☿ ♄ | | ♈ | Δ | | Δ | |
| 31 | 20 34 | 14 1 | 22 39 | 22 56 | 15 47 | ♊ ♄ ♂ | Δ | | | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 13 | 19 N 41 | 0 S 8 | 21 N 43 | 1 S 13 | 14 N 56 |
| 4 | 15 | 48 | 0 13 | 19 42 | 0 8 | 21 40 | 1 13 | 15 1 |
| 7 | 15 | 49 | 0 13 | 19 43 | 0 8 | 21 36 | 1 13 | 15 6 |
| 10 | 15 | 49 | 0 13 | 19 44 | 0 8 | 21 33 | 1 14 | 15 9 |
| 13 | 15 | 50 | 0 13 | 19 45 | 0 7 | 21 30 | 1 14 | 15 13 |
| 16 | 15 | 50 | 0 13 | 19 46 | 0 7 | 21 27 | 1 15 | 15 16 |
| 19 | 15 | 51 | 0 13 | 19 46 | 0 7 | 21 24 | 1 16 | 15 19 |
| 22 | 15 | 51 | 0 13 | 19 47 | 0 7 | 21 20 | 1 16 | 15 24 |
| 25 | 15 | 52 | 0 13 | 19 47 | 0 7 | 21 17 | 1 17 | 15 27 |
| 28 | 15 | 53 | 0 13 | 19 47 | 0 7 | 21 14 | 1 17 | 15 30 |
| 31 | 15 | 53 | 0 13 | 19 47 | 0 7 | 21 11 | 1 18 | 15 33 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | S | 8 40 10 | 9 Ω 6 40 | 18 N 0 | 18 † 50 | 5 S 3 | 28 S 1 | 28 † 49 |
| 2 | S | 8 44 6.10 | 4 5 | 17 44 | 1 † 0 | 5 7 | 28 34 | 28 51 |
| 3 | M | 8 48 3.11 | 1 32 | 17 29 | 13 42 | 4 56 | 27 40 | 28 52 |
| 4 | Tu | 8 51 59.11 | 58 59 | 17 13 | 26 31 | 4 31 | 25 17 | 28 54 |
| 5 | W | 8 55 56.12 | 56 27 | 16 59 | 9 † 37 | 3 50 | 21 33 | 28 55 |
| 6 | Th | 8 59 53.13 | 53 56 | 16 40 | 22 58 | 2 57 | 16 39 | 28 57 |
| 7 | F | 9 3 49.14 | 51 27 | 16 24 | 6 † 33 | 1 52 | 10 51 | 28 58 |
| 8 | S | 9 7 46.15 | 48 59 | 16 7 | 20 18 | 0 40 | 4 27 | 29 1 |
| 9 | S | 9 11 42.16 | 46 32 | 15 49 | 4 † 13 | 0 N 35 | 2 N 13 | 29 1 |
| 10 | M | 9 15 39.17 | 44 6 | 15 32 | 18 15 | 1 49 | 8 50 | 29 2 |
| 11 | Tu | 9 19 35.18 | 41 42 | 15 14 | 2 † 21 | 2 57 | 15 4 | 29 4 |
| 12 | W | 9 23 32.19 | 39 19 | 14 56 | 16 31 | 3 54 | 20 32 | 29 5 |
| 13 | Th | 9 27 29.20 | 36 58 | 14 38 | 0 † 43 | 4 37 | 24 50 | 29 6 |
| 14 | F | 9 31 25.21 | 34 39 | 14 19 | 14 55 | 5 3 | 27 38 | 29 7 |
| 15 | S | 9 35 22.22 | 32 20 | 14 1 | 29 3 | 5 11 | 28 38 | 29 8 |
| 16 | S | 9 39 18.23 | 30 4 | 13 42 | 13 † 6 | 5 0 | 27 47 | 29 9 |
| 17 | M | 9 43 15.24 | 27 49 | 13 23 | 27 0 | 4 31 | 25 12 | 29 1 |
| 18 | Tu | 9 47 11.25 | 25 36 | 13 3 | 10 Ω 41 | 3 47 | 21 13 | 29 1 |
| 19 | W | 9 51 8.26 | 23 24 | 12 44 | 24 7 | 2 51 | 16 11 | 29 2 |
| 20 | Th | 9 55 4.27 | 21 13 | 12 24 | 7 † 16 | 1 47 | 10 31 | 29 3 |
| 21 | F | 9 59 1.28 | 19 4 | 12 4 | 20 7 | 0 39 | 4 31 | 29 4 |
| 22 | S | 10 2 57.29 | 16 57 | 11 44 | 2 † 40 | 0 S 30 | 1 S 31 | 29 5 |
| 23 | S | 10 6 54.0 † | 14 50 | 11 24 | 14 58 | 1 36 | 7 22 | 29 6 |
| 24 | M | 10 10 51.1 | 12 46 | 11 3 | 27 3 | 2 36 | 12 51 | 29 7 |
| 25 | Tu | 10 14 47.2 | 10 42 | 10 42 | 8 † 59 | 3 29 | 17 48 | 29 8 |
| 26 | W | 10 18 44.3 | 8 40 | 10 22 | 20 51 | 4 18 | 22 3 | 29 9 |
| 27 | Th | 10 22 40.4 | 6 39 | 10 1 | 2 † 43 | 4 46 | 25 24 | 29 1 |
| 28 | F | 10 26 37.5 | 4 39 | 9 39 | 14 39 | 5 7 | 27 40 | 29 2 |
| 29 | S | 10 30 33.6 | 2 40 | 9 18 | 26 46 | 5 15 | 28 40 | 29 3 |
| 30 | S | 10 34 30.7 | 0 43 | 8 57 | 9 † 7 | 5 8 | 28 16 | 29 4 |
| 31 | M | 10 38 26.7 | 58 48 | 8 35 | 21 44 | 4 47 | 26 25 | 29 5 |

1857.]

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 0 N 57 | 22 N 24 | 2 8 55 | 20 N 24 | 1 N 44 | 17 N 11 | 29 x 32 |
| 4 | 0 58 | 22 4 | 2 46 | 20 40 | 1 36 | 15 14 | 29 28 |
| 7 | 0 59 | 21 43 | 2 36 | 20 52 | 1 29 | 13 10 | 29 18 |
| 10 | 1 1 | 21 20 | 2 26 | 21 0 | 1 7 | 11 2 | 29 3 |
| 13 | 1 2 | 20 57 | 2 14 | 21 4 | 0 48 | 8 53 | 28 54 |
| 16 | 1 3 | 20 32 | 2 2 | | | | 28 44 |
| 19 | 1 4 | 20 5 | 1 51 | | | | 28 35 |
| 22 | 1 5 | 19 38 | 1 39 | | | | 28 25 |
| 25 | 1 6 | 19 9 | 1 27 | | | | 28 16 |
| 28 | 1 7 | 18 39 | 1 15 | | | | 28 6 |
| 31 | 1 8 | 18 8 | 1 3 | | | | 27 57 |

| D
M | ♂ | | ♀ | | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | | | | | | | |
| 1 | 20 42 | 14 8 | 23 18 | 23 58 | 17 24 | | | | | ♂ | Δ | |
| 2 | 20 50 | 14 13 | 23 57 | 25 0 | 19 40 | | | | | | | |
| 3 | 20 57 | 14 19 | 24 36 | 26 2 | 21 34 | ☉ ☿ ♀ | | | | Δ | | |
| 4 | 21 5 | 14 25 | 25 15 | 27 5 | 23 26 | ♀ ♀ ♀ | | Δ | ♂ | | ♂ | |
| 5 | 21 13 | 14 31 | 25 54 | 28 7 | 25 17 | | ♂ | | | □ | | |
| 6 | 21 20 | 14 36 | 26 33 | 29 10 | 27 6 | ♀ ♀ ☿ | | □ | | | | ♂ |
| 7 | 21 27 | 14 41 | 27 12 | 0 13 | 28 54 | ☉ ☿ ♀ | | | | | Δ | |
| 8 | 21 34 | 14 46 | 27 51 | 1 17 | 0 40 | | | | ☿ | | | |
| 9 | 21 42 | 14 51 | 28 29 | 2 21 | 2 25 | ♂ * ♀ | | * | | | □ | |
| 10 | 21 49 | 14 56 | 29 8 | 3 25 | 4 9 | ♂ * ♀ | Δ | | ☿ | | | |
| 11 | 21 56 | 15 1 | 29 47 | 4 29 | 5 51 | ☉ ♀ ♀ | | | | | □ | * |
| 12 | 22 3 | 15 6 | 0 26 | 5 33 | 7 31 | | □ | | * | ♂ | * | |
| 13 | 22 10 | 15 10 | 1 5 | 6 38 | 9 9 | | | ♂ | | | * | |
| 14 | 22 17 | 15 14 | 1 44 | 7 43 | 10 46 | | | | | | | □ |
| 15 | 22 24 | 15 18 | 2 22 | 8 48 | 12 22 | | * | | | | | |
| 16 | 22 31 | 15 22 | 3 0 | 9 54 | 13 56 | | | | | * | | ♂ |
| 17 | 22 38 | 15 26 | 3 39 | 10 59 | 15 29 | ♀ Δ ♀ | | * | ♂ | | | * |
| 18 | 22 45 | 15 30 | 4 17 | 12 5 | 17 1 | | | | | □ | ♂ | |
| 19 | 22 52 | 15 33 | 4 56 | 13 11 | 18 31 | | ♂ | □ | | | | |
| 20 | 22 59 | 15 36 | 5 34 | 14 17 | 19 55 | | | | | | | |
| 21 | 23 6 | 15 39 | 6 13 | 15 21 | 21 26 | ♀ * ♀ | | | * | Δ | * | ♂ |
| 22 | 23 13 | 15 42 | 6 51 | 16 31 | 22 51 | ☉ ☿ ♀ | | Δ | | * | | |
| 23 | 23 20 | 15 44 | 7 30 | 17 38 | 24 15 | | | | | | □ | |
| 24 | 23 27 | 15 46 | 8 8 | 18 45 | 25 37 | | * | | □ | | | |
| 25 | 23 33 | 15 48 | 8 47 | 19 52 | 26 58 | | | | | | □ | |
| 26 | 23 40 | 15 50 | 9 25 | 20 58 | 28 17 | | | | Δ | ♂ | | Δ |
| 27 | 23 47 | 15 52 | 10 3 | 22 6 | 29 35 | ☿ Δ ♀ | □ | ♂ | | | | * |
| 28 | 23 53 | 15 54 | 10 41 | 23 14 | 0 51 | ♀ ☿ ♀ | | | | | Δ | |
| 29 | 24 0 | 15 55 | 11 19 | 24 22 | 2 5 | ♂ ☿ ♀ | | | | | | □ |
| 30 | 24 7 | 15 56 | 11 57 | 25 30 | 3 17 | | Δ | | | | | |
| 31 | 24 13 | 15 57 | 12 35 | 26 38 | 4 26 | ♀ ♀ ♀ | | | ♂ | Δ | | ♂ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 13 | 19 N 47 | 0 S 7 | 21 N 10 | 1 S 18 | 15 N 23 |
| 4 | 15 | 54 | 0 13 | 19 47 | 0 6 | 21 7 | 1 19 | 15 23 |
| 7 | 15 | 54 | 0 14 | 19 47 | 0 6 | 21 4 | 1 19 | 15 22 |
| 10 | 15 | 55 | 0 14 | 19 47 | 0 6 | 21 1 | 1 20 | 15 21 |
| 13 | 15 | 56 | 0 14 | 19 47 | 0 6 | 20 58 | 1 20 | 15 19 |
| 16 | 15 | 56 | 0 14 | 19 47 | 0 5 | 20 55 | 1 20 | 15 17 |
| 19 | 15 | 57 | 0 14 | 19 46 | 0 5 | 20 53 | 1 21 | 15 14 |
| 22 | 15 | 58 | 0 14 | 19 46 | 0 5 | 20 50 | 1 21 | 15 11 |
| 25 | 15 | 59 | 0 14 | 19 45 | 0 4 | 20 48 | 1 21 | 15 7 |
| 28 | 16 | 0 | 0 14 | 19 44 | 0 4 | 20 45 | 1 22 | 15 3 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|--------------------|--------------|----------------|-----------|--------------|-------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | Tu | 10 | 42 | 23 | 8 π 56 53 | 8 N 13 | 4 π 42 | 4 S 10 | 23 S 9 | 29 π 18 |
| 2 | W | 10 | 46 | 20 | 9 55 1 | 7 51 18 | 1 3 | 20 18 | 37 | 29 π 18 |
| 3 | Th | 10 | 50 | 16 | 10 53 10 | 7 29 | 1 \times 39 | 2 16 13 | 1 | 29 17 |
| 4 | F | 10 | 54 | 13 | 11 51 21 | 7 7 15 | 36 | 1 8 6 | 39 | 29 17 |
| 5 | S | 10 | 58 | 9 | 12 49 34 | 6 45 29 | 48 | 0 N 15 | 0 N 9 | 29 17 |
| 6 | S | 11 | 2 | 6 | 13 47 48 | 6 23 14 | τ 10 | 1 33 7 | 1 | 29 17 |
| 7 | M | 11 | 6 | 2 | 14 46 5 | 6 0 28 | 37 | 2 46 13 | 34 | 29 17 |
| 8 | Tu | 11 | 9 | 59 | 15 44 23 | 5 38 13 | δ 4 | 3 48 19 | 23 | 29 16 |
| 9 | W | 11 | 13 | 55 | 16 42 43 | 5 15 27 | 28 | 4 35 24 | 4 | 29 16 |
| 10 | Th | 11 | 17 | 52 | 17 41 6 | 4 52 11 | Π 44 | 5 5 27 | 15 | 29 16 |
| 11 | F | 11 | 21 | 49 | 18 39 31 | 4 29 25 | 51 | 5 17 28 | 40 | 29 16 |
| 12 | S | 11 | 25 | 45 | 19 37 58 | 4 7 9 | \square 45 | 5 9 28 | 14 | 29 16 |
| 13 | S | 11 | 29 | 42 | 20 36 27 | 3 44 23 | 28 | 4 44 26 | 5 | 29 15 |
| 14 | M | 11 | 33 | 38 | 21 34 58 | 3 20 6 | Ω 57 | 4 4 22 | 29 | 29 15 |
| 15 | Tu | 11 | 37 | 35 | 22 33 31 | 2 57 20 | 12 | 3 11 17 | 47 | 29 15 |
| 16 | W | 11 | 41 | 32 | 23 32 6 | 2 34 3 | π 13 | 2 9 12 | 20 | 29 14 |
| 17 | Th | 11 | 45 | 28 | 24 30 44 | 2 11 16 | 1 | 1 1 6 | 28 | 29 14 |
| 18 | F | 11 | 49 | 24 | 25 29 23 | 1 48 28 | 35 | 0 S 8 | 0 | 26 29 13 |
| 19 | S | 11 | 53 | 21 | 26 28 5 | 1 24 10 | \triangle 57 | 1 16 5 | S 30 | 29 12 |
| 20 | S | 11 | 57 | 18 | 27 26 48 | 1 1 23 | 7 | 2 19 11 | 9 | 29 11 |
| 21 | M | 12 | 1 | 14 | 28 25 34 | 0 38 5 | π 8 | 3 15 16 | 19 | 29 10 |
| 22 | Tu | 12 | 5 | 11 | 29 24 21 | 0 14 17 | 2 | 4 8 20 | 49 | 29 9 |
| 23 | W | 12 | 9 | 7 | 0 \triangle 23 9 | 0 S 9 | 28 53 | 4 39 24 | 29 | 29 8 |
| 24 | Th | 12 | 13 | 4 | 1 22 0 | 0 33 10 | \dagger 44 | 5 4 27 | 5 | 29 7 |
| 25 | F | 12 | 17 | 0 | 2 20 53 | 0 56 22 | 40 | 5 16 28 | 31 | 29 6 |
| 26 | S | 12 | 20 | 57 | 3 19 47 | 1 20 4 | ν 44 | 5 14 28 | 36 | 29 5 |
| 27 | S | 12 | 24 | 53 | 4 18 43 | 1 43 17 | 2 | 4 58 27 | 18 | 29 4 |
| 28 | M | 12 | 28 | 50 | 5 17 40 | 2 6 29 | 38 | 4 27 24 | 36 | 29 3 |
| 29 | Tu | 12 | 32 | 47 | 6 16 39 | 2 30 12 | π 35 | 3 43 20 | 36 | 29 1 |
| 30 | W | 12 | 36 | 43 | 7 15 41 | 2 53 25 | 56 | 2 45 15 | 28 | 29 0 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | |
| 1 | 1 N 8 | 17 N 57 | 0 S 59 | 19 N 40 | 1 S 54 | 3 S 57 | 27 x 55 |
| 4 | 1 9 | 17 25 | 0 47 | 19 4 | 2 20 | 5 37 | 27 44 |
| 7 | 1 10 | 16 52 | 0 38 | 18 33 | 2 46 | 7 7 | 27 34 |
| 10 | 1 11 | 16 18 | 0 24 | 17 53 | 3 10 | 8 23 | 27 25 |
| 13 | 1 12 | 15 43 | 0 12 | 17 8 | 3 29 | 9 24 | 27 15 |
| 16 | 1 13 | 15 7 | 0 1 | 16 18 | 3 46 | 10 3 | 27 6 |
| 19 | 1 14 | 14 30 | 0 N 11 | 15 25 | 3 53 | 10 16 | 26 56 |
| 22 | 1 15 | 13 53 | 0 20 | 14 27 | 3 54 | 9 56 | 26 47 |
| 25 | 1 16 | 13 15 | 0 29 | 13 25 | 3 40 | 8 57 | 26 37 |
| 28 | 1 17 | 12 36 | 0 38 | 12 20 | 3 5 | 7 21 | 26 28 |

| D
M | ☿ | | ♈ | | ♉ | | Mutual
Aspts. | Lu
☾ |
|--------|-------|-------|-------|-------|-------|-------|------------------|---------|
| | Long. | Long. | Long. | Long. | Long. | Long. | | |
| | ° | ' | ° | ' | ° | ' | | |
| 1 | 24 19 | 15 58 | 13 13 | 27 46 | 5 34 | | | |
| 2 | 24 26 | 15 58 | 13 51 | 28 54 | 6 40 | ☉ ∠ ☿ | | |
| 3 | 24 32 | 15 59 | 14 29 | 0 2 | 7 44 | ♀ * ☿ | | |
| 4 | 24 38 | 15 59 | 15 7 | 1 11 | 8 45 | | | ♂ |
| 5 | 24 44 | 15 59 | 15 45 | 2 | 9 44 | ♂ ☐ ♀ | | |
| 6 | 24 50 | 15 59 | 16 23 | 3 29 | 10 40 | ☉ P ♀ | | |
| 7 | 24 55 | 15 58 | 17 1 | 4 | 11 33 | | | |
| 8 | 25 1 | 15 57 | 17 39 | 5 47 | 12 23 | ☉ Δ ♀ | Δ | |
| 9 | 25 7 | 15 56 | 18 17 | 6 57 | 13 10 | | | |
| 10 | 25 12 | 15 55 | 18 55 | 8 6 | 13 54 | | ☐ | |
| 11 | 25 18 | 15 54 | 19 33 | 9 16 | 14 34 | ♀ ☐ ♀ | | |
| 12 | 25 23 | 15 53 | 20 11 | 10 26 | 15 9 | | | |
| 13 | 25 29 | 15 51 | 20 49 | 11 36 | 15 40 | | | * ♀ |
| 14 | 25 35 | 15 49 | 21 27 | 12 46 | 16 7 | | | |
| 15 | 25 40 | 15 47 | 22 4 | 13 56 | 16 29 | ♂ P ♀ | | |
| 16 | 25 46 | 15 45 | 22 42 | 15 6 | 16 45 | | | |
| 17 | 25 51 | 15 43 | 23 20 | 16 17 | 16 55 | | | |
| 18 | 25 56 | 15 40 | 23 57 | 17 27 | 17 0 | ♀ * ♀ | ♂ | |
| 19 | 26 1 | 15 37 | 24 35 | 18 38 | 16 58 | ☉ * ☿ | | |
| 20 | 26 6 | 15 34 | 25 13 | 19 49 | 16 49 | ☉ ☐ ♀ | | |
| 21 | 26 11 | 15 31 | 25 50 | 20 59 | 16 33 | | | |
| 22 | 26 16 | 15 27 | 26 28 | 22 10 | 16 10 | ☉ Δ ☿ | | |
| 23 | 26 20 | 15 23 | 27 5 | 23 21 | 15 40 | | | * ♀ |
| 24 | 26 25 | 15 19 | 27 43 | 24 32 | 15 3 | | | |
| 25 | 26 30 | 15 15 | 28 20 | 25 43 | 14 19 | ♀ ☐ ☿ | | |
| 26 | 26 34 | 15 11 | 28 58 | 26 54 | 13 28 | ♂ ☐ ☿ | ☐ | |
| 27 | 26 39 | 15 7 | 29 35 | 28 | 12 29 | | | |
| 28 | 26 43 | 15 3 | 0 12 | 29 17 | 11 26 | ♀ ☐ ☿ | Δ | |
| 29 | 26 48 | 14 59 | 0 40 | 0 29 | 10 20 | ♀ ☉ ♂ | | |
| 30 | 26 52 | 14 53 | 1 17 | 1 | 9 13 | | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 14 | 19 N 43 | 0 S 4 | 20 N 43 | 1 S 22 | 14 N 50 |
| 4 | 16 | 2 | 0 14 | 19 43 | 0 3 | 20 41 | 1 23 | 14 54 |
| 7 | 16 | 3 | 0 14 | 19 42 | 0 3 | 20 39 | 1 23 | 14 48 |
| 10 | 16 | 4 | 0 14 | 19 41 | 0 3 | 20 37 | 1 24 | 14 42 |
| 13 | 16 | 5 | 0 14 | 19 39 | 0 3 | 20 36 | 1 24 | 14 36 |
| 16 | 16 | 5 | 0 14 | 19 38 | 0 2 | 20 34 | 1 24 | 14 30 |
| 19 | 16 | 6 | 0 14 | 19 37 | 0 2 | 20 33 | 1 24 | 14 23 |
| 22 | 16 | 7 | 0 14 | 19 36 | 0 2 | 20 32 | 1 24 | 14 16 |
| 25 | 16 | 8 | 0 14 | 19 34 | 0 1 | 20 31 | 1 24 | 14 9 |
| 28 | 16 | 9 | 0 14 | 19 33 | 0 1 | 20 31 | 1 24 | 14 2 |
| 31 | 16 | 9 | 0 14 | 19 31 | 0 1 | 20 30 | 1 23 | 13 55 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | Th | 12 40 40 | 8 14 44 | 3 S 16 | 9 43 | 1 S 35 | 9 S 24 | 28 58 |
| 2 | F | 12 44 36 | 9 13 49 | 3 40 | 23 54 | 0 18 | 2 42 | 28 57 |
| 3 | S | 12 48 33 | 10 12 55 | 4 3 | 8 25 | 1 N 2 | 4 N 17 | 28 55 |
| 4 | S | 12 52 29 | 11 12 5 | 4 26 | 23 12 | 2 19 | 11 10 | 28 54 |
| 5 | M | 12 56 26 | 12 11 16 | 4 49 | 8 6 | 3 27 | 17 29 | 28 52 |
| 6 | Tu | 13 0 22 | 13 10 29 | 5 12 | 23 0 | 4 22 | 22 45 | 28 51 |
| 7 | W | 13 4 19 | 14 9 44 | 5 35 | 7 46 | 4 58 | 26 31 | 28 49 |
| 8 | Th | 13 8 16 | 15 9 2 | 5 58 | 22 17 | 5 14 | 28 28 | 28 48 |
| 9 | F | 13 12 12 | 16 8 22 | 6 21 | 6 30 | 5 11 | 28 29 | 28 47 |
| 10 | S | 13 16 9 | 17 7 45 | 6 44 | 20 23 | 4 50 | 26 41 | 28 45 |
| 11 | S | 13 20 5 | 18 7 9 | 7 7 | 3 55 | 4 13 | 23 23 | 28 44 |
| 12 | M | 13 24 2 | 19 6 37 | 7 29 | 17 7 | 3 23 | 18 56 | 28 42 |
| 13 | Tu | 13 27 58 | 20 6 6 | 7 52 | 0 3 | 2 23 | 13 42 | 28 41 |
| 14 | W | 13 31 55 | 21 5 37 | 8 14 | 12 44 | 1 18 | 8 0 | 28 39 |
| 15 | Th | 13 35 51 | 22 5 12 | 8 37 | 25 12 | 0 11 | 2 4 | 28 37 |
| 16 | F | 13 39 48 | 23 4 48 | 8 59 | 7 29 | 0 S 57 | 3 S 50 | 28 35 |
| 17 | S | 13 43 44 | 24 4 26 | 9 21 | 19 38 | 2 0 | 9 33 | 28 33 |
| 18 | S | 13 47 41 | 25 4 6 | 9 43 | 1 40 | 2 58 | 14 51 | 28 31 |
| 19 | M | 13 51 38 | 26 3 49 | 10 4 | 13 35 | 3 47 | 19 33 | 28 29 |
| 20 | Tu | 13 55 34 | 27 3 33 | 10 26 | 25 28 | 4 26 | 23 27 | 28 27 |
| 21 | W | 13 59 31 | 28 3 19 | 10 48 | 7 18 | 4 54 | 26 22 | 28 25 |
| 22 | Th | 14 3 27 | 29 3 7 | 11 9 | 19 9 | 5 9 | 28 9 | 28 23 |
| 23 | F | 14 7 24 | 0 m 2 56 | 11 30 | 1 4 | 5 10 | 28 36 | 28 21 |
| 24 | S | 14 11 20 | 1 2 48 | 11 51 | 13 6 | 4 59 | 27 46 | 28 19 |
| 25 | S | 14 15 17 | 2 2 41 | 12 12 | 25 20 | 4 33 | 25 34 | 28 17 |
| 26 | M | 14 19 13 | 3 2 35 | 12 32 | 7 50 | 3 54 | 22 6 | 28 15 |
| 27 | Tu | 14 23 10 | 4 2 32 | 12 53 | 20 40 | 3 3 | 17 30 | 28 13 |
| 28 | W | 14 27 7 | 5 2 30 | 13 13 | 3 55 | 2 0 | 11 57 | 28 11 |
| 29 | Th | 14 31 3 | 6 2 29 | 13 33 | 17 37 | 0 48 | 5 38 | 28 8 |
| 30 | F | 14 35 0 | 7 2 30 | 13 53 | 1 48 | 0 N 28 | 1 N 9 | 28 6 |
| 31 | S | 14 38 56 | 8 2 33 | 14 12 | 16 25 | 1 45 | 8 5 | 28 4 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 1 N 18 | 11 N 57 | 0 N 47 | 11 N 12 | 2 S 17 | 5 S 16 | 26 × 18 |
| 4 | 1 18 | 11 18 | 0 56 | 10 0 | 1 18 | 3 5 | 26 8 |
| 7 | 1 19 | 10 38 | 1 4 | 8 46 | 0 19 | 1 16 | 25 59 |
| 10 | 1 20 | 9 57 | 1 10 | 7 29 | 0 N 40 | 0 9 | 25 49 |
| 13 | 1 20 | 9 16 | 1 16 | 6 10 | 1 20 | 0 N 8 | 25 40 |
| 16 | 1 21 | 8 35 | 1 22 | 4 49 | 1 48 | 0 S 21 | 25 30 |
| 19 | 1 22 | 7 53 | 1 27 | 3 26 | 2 1 | 1 27 | 25 21 |
| 22 | 1 23 | 7 11 | 1 31 | 2 3 | 2 5 | 2 59 | 25 11 |
| 25 | 1 23 | 6 29 | 1 35 | 0 38 | 2 1 | 4 47 | 25 2 |
| 28 | 1 24 | 5 47 | 1 37 | 0 S 48 | 1 52 | 6 44 | 24 52 |
| 31 | 1 25 | 5 5 | 1 39 | 2 13 | 1 37 | 8 44 | 24 43 |

| D
M | ♂ | ♂ | ♂ | ♀ | ♀ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|----------|-------|-------|-------|--------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♂ | ♀ | ♀ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 26 57 | 14 48 | 1 54 | 2 53 | 8 3 | | | | | * | | | |
| 2 | 27 14 | 14 43 | 2 32 | 4 5 | 6 55 | | | * | Δ | | | | |
| 3 | 27 5 14 | 38 | 3 19 | 5 17 | 5 51 | ♀ ⊥ ♀ | ♂ | | | | | | ♂ |
| 4 | 27 9 14 | 32 | 3 56 | 6 29 | 4 51 | | | | □ | | | | |
| 5 | 27 13 14 | 26 | 4 33 | 7 41 | 3 57 | ♂ ⊥ ♂ | | | | ♂ | Δ | Δ | |
| 6 | 27 17 14 | 20 | 5 10 | 8 53 | 3 12 | | | ♂ | * | | | | |
| 7 | 27 20 14 | 14 | 5 47 | 10 6 | 2 36 | ☉ □ ♀ | Δ | | | | □ | □ | Δ |
| 8 | 27 23 14 | 8 | 6 24 | 11 18 | 2 10 | | | | | | | | |
| 9 | 27 26 14 | 2 | 7 1 | 12 31 | 1 55 | | | | | | * | * | □ |
| 10 | 27 29 13 | 56 | 7 38 | 13 43 | 1 51 | ♀ Δ ♀ | □ | | | * | | | |
| 1 | 27 32 13 | 50 | 8 15 | 14 56 | 1 D 59 | ☉ P ♀ | | * | ♂ | | | | * |
| 2 | 27 35 13 | 43 | 8 52 | 16 9 | 2 14 | | | * | | | □ | | |
| 3 | 27 38 13 | 36 | 9 29 | 17 22 | 2 38 | | | | □ | | | | |
| 4 | 27 41 13 | 29 | 10 6 | 18 35 | 3 14 | | | | | | Δ | ♂ | ♂ |
| 5 | 27 44 13 | 22 | 10 43 | 19 48 | 4 4 | | | | Δ | * | | | |
| 6 | 27 47 13 | 15 | 11 20 | 21 1 | 4 59 | ☉ P ♂ | | | | | | | ♂ |
| 7 | 27 50 13 | 8 | 11 56 | 22 14 | 6 0 | | ♂ | | | | | | |
| 8 | 27 52 13 | 1 | 12 33 | 23 28 | 7 5 | | | | | □ | | | |
| 9 | 27 54 12 | 54 | 13 10 | 24 41 | 8 16 | ♂ Δ ♀ | | | | ♂ | * | * | |
| 10 | 27 56 12 | 46 | 13 46 | 25 54 | 9 33 | | | ♂ | Δ | | | * | |
| 1 | 27 58 12 | 38 | 14 23 | 27 8 | 10 56 | ☉ □ ♀ | | | | | | | * |
| 2 | 28 0 12 | 30 | 15 0 | 28 22 | 12 22 | ♀ Δ ♀ | | | | | | □ | |
| 3 | 28 2 11 | 22 | 15 36 | 29 35 | 13 50 | ♀ □ ♀ | * | | | | | □ | |
| 4 | 28 4 11 | 14 | 16 13 | 0 48 | 15 20 | ☉ ⊥ ♂ | | | | | Δ | Δ | □ |
| 5 | 28 6 11 | 6 | 16 50 | 2 2 | 16 52 | ☉ ⊥ ♀ | | Δ | ♂ | | | | |
| 6 | 28 8 11 | 58 | 17 26 | 3 16 | 18 26 | | | □ | | | | | Δ |
| 7 | 28 10 11 | 50 | 18 3 | 4 30 | 20 2 | | | | | | | | Δ |
| 8 | 28 12 11 | 42 | 18 39 | 5 44 | 21 38 | ♂ * ♀ | Δ | □ | | | | | |
| 9 | 28 14 11 | 34 | 19 16 | 6 58 | 23 15 | | | | | * | ♂ | | |
| 10 | 28 15 11 | 26 | 19 52 | 8 12 | 24 53 | ☉ P ♀ | | * | Δ | | | ♂ | |
| 11 | 28 16 11 | 17 | 20 29 | 9 26 | 26 31 | | | | | | | | |

NOVEMBER XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 14 | 19 N 31 | 0 S 1 | 20 N 30 | 1 S 23 | 13 N 52 |
| 4 | 16 | 9 | 0 14 | 19 29 | 0 0 | 20 30 | 1 23 | 13 45 |
| 7 | 16 | 10 | 0 14 | 19 27 | 0 0 | 20 30 | 1 23 | 13 38 |
| 10 | 16 | 11 | 0 13 | 19 26 | 0 0 | 20 30 | 1 23 | 13 31 |
| 13 | 16 | 12 | 0 13 | 19 24 | 0 N 1 | 20 31 | 1 22 | 13 23 |
| 16 | 16 | 12 | 0 13 | 19 22 | 0 1 | 20 31 | 1 22 | 13 15 |
| 19 | 16 | 13 | 0 13 | 19 21 | 0 1 | 20 32 | 1 21 | 13 10 |
| 22 | 16 | 13 | 0 13 | 19 19 | 0 1 | 20 33 | 1 21 | 13 3 |
| 25 | 16 | 14 | 0 13 | 19 17 | 0 2 | 20 35 | 1 20 | 12 57 |
| 28 | 16 | 14 | 0 13 | 19 16 | 0 2 | 20 36 | 1 19 | 12 52 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|---------------------|--------------|--------------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 14 42 53 | 9 ^m 2 38 | 14 S 31 | 18 24 | 2 N 57 | 14 N 44 | 28 2 |
| 2 | M | 14 46 49 | 10 2 45 | 14 50 | 16 36 | 3 57 | 20 36 | 27 55 |
| 3 | Tu | 14 50 46 | 11 2 53 | 15 9 | 1 11 52 | 4 41 | 25 8 | 27 57 |
| 4 | W | 14 54 42 | 12 3 4 | 15 28 | 17 0 | 5 42 | 27 52 | 27 55 |
| 5 | Th | 14 58 39 | 13 3 16 | 15 46 | 1 55 52 | 5 6 | 28 33 | 27 53 |
| 6 | F | 15 2 36 | 14 3 30 | 16 4 | 16 19 | 4 49 | 27 14 | 27 50 |
| 7 | S | 15 6 32 | 15 3 46 | 16 22 | 0 2 20 | 4 14 | 24 14 | 27 4 |
| 8 | S | 15 10 29 | 16 4 5 | 16 40 | 18 54 | 3 27 | 19 58 | 27 4 |
| 9 | M | 15 14 25 | 17 4 25 | 16 57 | 27 2 | 2 29 | 14 51 | 27 4 |
| 10 | Tu | 15 18 22 | 18 4 47 | 17 14 | 9 ^m 49 | 1 26 | 9 13 | 27 3 |
| 11 | W | 15 22 18 | 19 5 11 | 17 31 | 22 17 | 0 20 | 3 22 | 27 2 |
| 12 | Th | 15 26 15 | 20 5 37 | 17 47 | 4 32 | 0 S 46 | 2 S 31 | 27 1 |
| 13 | F | 15 30 11 | 21 6 5 | 18 3 | 16 37 | 1 49 | 8 13 | 27 1 |
| 14 | S | 15 34 8 | 22 6 35 | 18 19 | 28 36 | 2 46 | 13 34 | 27 3 |
| 15 | S | 15 38 4 | 23 7 6 | 18 34 | 10 ^m 30 | 3 35 | 18 23 | 27 3 |
| 16 | M | 15 42 1 | 24 7 40 | 18 49 | 22 22 | 4 14 | 22 29 | 27 2 |
| 17 | Tu | 15 45 58 | 25 8 14 | 19 4 | 4 7 13 | 4 43 | 25 38 | 27 2 |
| 18 | W | 15 49 54 | 26 8 50 | 19 18 | 16 5 | 4 59 | 27 41 | 27 2 |
| 19 | Th | 15 53 51 | 27 9 28 | 19 32 | 27 59 | 5 2 | 28 29 | 27 15 |
| 20 | F | 15 57 47 | 28 10 7 | 19 46 | 9 ^m 57 | 4 52 | 27 57 | 27 11 |
| 21 | S | 16 1 44 | 29 10 47 | 20 0 | 22 2 | 4 29 | 26 5 | 27 1 |
| 22 | S | 16 5 41 | 0 11 28 | 20 13 | 4 ^m 16 | 3 54 | 22 59 | 27 1 |
| 23 | M | 16 9 37 | 1 12 10 | 20 25 | 16 43 | 3 6 | 18 48 | 27 0 |
| 24 | Tu | 16 13 34 | 2 12 54 | 20 37 | 29 27 | 2 9 | 18 41 | 27 0 |
| 25 | W | 16 17 30 | 3 13 38 | 20 49 | 12 33 | 1 3 | 7 49 | 27 1 |
| 26 | Th | 16 21 27 | 4 14 23 | 21 1 | 26 4 | 0 N 9 | 1 26 | 26 1 |
| 27 | F | 16 25 23 | 5 15 10 | 21 12 | 10 7 3 | 1 22 | 5 N 14 | 26 5 |
| 28 | S | 16 29 20 | 6 15 57 | 21 22 | 24 30 | 2 32 | 11 52 | 26 5 |
| 29 | S | 16 33 16 | 7 16 46 | 21 33 | 9 23 | 3 34 | 18 1 | 26 31 |
| 30 | M | 16 37 13 | 8 17 35 | 21 42 | 24 35 | 4 22 | 23 10 | 26 4 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 1 N 25 | 4 N 51 | 1 N 39 | 2 S 42 | 1 N 32 | 9 S 24 | 24 × 39 |
| 4 | 1 26 | 4 9 | 1 40 | 4 8 | 1 14 | 11 23 | 24 30 |
| 7 | 1 27 | 3 26 | 1 41 | 5 33 | 0 55 | 13 19 | 24 21 |
| 10 | 1 27 | 2 44 | 1 41 | 6 57 | 0 35 | 15 9 | 24 11 |
| 13 | 1 28 | 2 2 | 1 40 | 8 29 | 0 15 | 16 53 | 24 1 |
| 16 | 1 28 | 1 20 | 1 38 | 9 42 | 0 S 5 | 18 30 | 23 52 |
| 19 | 1 29 | 0 38 | 1 35 | 11 2 | 0 25 | 19 59 | 23 42 |
| 22 | 1 29 | 0 S 4 | 1 32 | 12 29 | 0 44 | 21 18 | 23 33 |
| 25 | 1 30 | 0 46 | 1 28 | 13 35 | 1 3 | 22 29 | 23 23 |
| 28 | 1 30 | 1 27 | 1 24 | 14 47 | 1 20 | 23 ■ | 23 14 |

| D
M | h
Long. | ♄
Long. | ♂
Long. | ♀
Long. | ♂
Long. | Mutual
Aspta. | |
|--------|------------|------------|------------|------------|------------|------------------|---|
| | ° | ' | ° | ' | ° | ' | |
| 1 | 28 17 11 | 8 21 | 5 10 | 40 28 | 9 | | ♂ |
| 2 | 28 18 11 | 8 02 | 41 11 | 54 29 | 48 | ♀ ☐ ♀ | |
| 3 | 28 19 10 | 52 22 | 17 13 | 8 1 | 27 | ☉ ♂ ♄ | |
| 4 | 28 19 10 | 44 22 | 53 14 | 22 3 | 6 | | |
| 5 | 29 20 10 | 36 23 | 29 15 | 37 4 | 44 | | Δ |
| 6 | 28 20 10 | 28 24 | 5 16 | 51 6 | 22 | | ☐ |
| 7 | 28 20 10 | 20 24 | 41 18 | 6 8 | 0 | | ☐ |
| 8 | 28 20 10 | 12 25 | 17 19 | 20 9 | 38 | | ☐ |
| 9 | 28 20 10 | 4 25 | 53 20 | 35 11 | 15 | | |
| 10 | 28 19 9 | 56 26 | 29 21 | 49 12 | 52 | | ☐ |
| 11 | 28 19 9 | 48 27 | 5 23 | 4 14 | 29 | | |
| 12 | 28 19 9 | 40 27 | 41 24 | 18 16 | 6 | | |
| 13 | 28 18 9 | 32 28 | 16 25 | 33 17 | 43 | | |
| 14 | 28 18 9 | 24 28 | 52 26 | 47 19 | 19 | | |
| 15 | 28 17 9 | 16 29 | 27 28 | 2 20 | 55 | | |
| 16 | 28 17 9 | 9 0 | 4 29 | 16 22 | 31 | | ☐ |
| 17 | 28 16 9 | 1 0 | 39 0 | 30 24 | 6 | | ☐ |
| 18 | 28 16 8 | 54 1 | 15 1 | 45 25 | 41 | | |
| 19 | 28 15 8 | 47 1 | 51 3 | 0 27 | 16 | | |
| 20 | 28 14 8 | 40 2 | 26 4 | 15 28 | 51 | | |
| 21 | 28 13 8 | 33 3 | 2 5 | 30 0 | 26 | | |
| 22 | 28 11 8 | 26 3 | 37 6 | 45 2 | 0 | | ☐ |
| 23 | 28 10 8 | 19 4 | 13 8 | 0 3 | 34 | | |
| 24 | 28 8 8 | 12 4 | 48 9 | 15 5 | 8 | | |
| 25 | 28 6 8 | 5 5 | 23 10 | 32 6 | 42 | | ☐ |
| 26 | 28 4 7 | 58 5 | 58 11 | 45 8 | 16 | | |
| 27 | 28 2 7 | 52 6 | 33 13 | 0 9 | 50 | | Δ |
| 28 | 28 0 7 | 46 7 | 8 14 | 15 11 | 24 | | |
| 29 | 27 58 7 | 40 7 | 43 15 | 30 12 | 57 | | |
| 30 | 27 56 7 | 34 8 | 18 16 | 45 14 | 31 | | |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 13 | 19 N 14 | 0 N 2 | 20 N 38 | 1 S 18 | 12 N 47 |
| 4 | 16 | 16 | 0 13 | 19 12 | 0 2 | 20 40 | 1 17 | 12 42 |
| 7 | 16 | 17 | 0 13 | 19 11 | 0 3 | 20 42 | 1 17 | 12 38 |
| 10 | 16 | 17 | 0 13 | 19 9 | 0 3 | 20 44 | 1 16 | 12 34 |
| 13 | 16 | 17 | 0 13 | 19 8 | 0 3 | 20 46 | 1 16 | 12 31 |
| 16 | 16 | 18 | 0 13 | 19 6 | 0 4 | 20 49 | 1 15 | 12 29 |
| 19 | 16 | 18 | 0 13 | 19 5 | 0 4 | 20 51 | 1 14 | 12 27 |
| 22 | 16 | 18 | 0 13 | 19 3 | 0 4 | 20 54 | 1 13 | 12 25 |
| 25 | 16 | 18 | 0 13 | 19 2 | 0 5 | 20 57 | 1 12 | 12 25 |
| 28 | 16 | 18 | 0 13 | 19 1 | 0 5 | 20 59 | 1 11 | 12 25 |
| 31 | 16 | 18 | 0 13 | 19 0 | 0 6 | 21 2 | 1 10 | 12 25 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | " | ° | ' | ° |
| 1 | Tu | 16 | 41 | 10 | 9 † 18 25 | 21 S 52 | 9 ♀ 56 | 4 N 52 | 26 N 46 | 26 46 |
| 2 | W | 16 | 45 | 6 | 10 19 17 | 22 1 25 | 15 5 | 1 28 | 23 26 | 26 44 |
| 3 | Th | 16 | 49 | 3 | 11 20 10 | 22 10 10 | 21 4 | 48 27 | 51 26 | 41 |
| 4 | F | 16 | 52 | 59 | 12 21 4 | 22 18 25 | 3 4 | 17 25 | 21 26 | 39 |
| 5 | S | 16 | 56 | 56 | 13 21 59 | 22 25 9 | 17 3 | 30 21 | 19 26 | 36 |
| 6 | S | 17 | 0 | 52 | 14 22 55 | 22 33 23 | 0 2 | 33 16 | 16 26 | 34 |
| 7 | M | 17 | 4 | 49 | 15 23 52 | 22 40 6 | 13 1 | 29 10 | 37 26 | 32 |
| 8 | Tu | 17 | 8 | 45 | 16 24 51 | 22 46 19 | 1 0 | 22 4 | 42 26 | 29 |
| 9 | W | 17 | 12 | 42 | 17 25 51 | 22 52 1 | 28 0 | S 43 | 1 S 15 | 26 27 |
| 10 | Th | 17 | 16 | 39 | 18 26 52 | 22 57 13 | 38 1 | 46 7 | 0 26 | 25 |
| 11 | F | 17 | 20 | 35 | 19 27 54 | 23 3 25 | 38 2 | 42 12 | 26 26 | 23 |
| 12 | S | 17 | 24 | 32 | 20 28 57 | 23 7 7 | 31 3 | 31 17 | 21 26 | 20 |
| 13 | S | 17 | 28 | 28 | 21 30 1 | 23 11 19 | 21 4 | 10 21 | 35 26 | 18 |
| 14 | M | 17 | 32 | 25 | 22 31 5 | 23 15 1 | † 11 4 | 39 24 | 57 26 | 16 |
| 15 | Tu | 17 | 36 | 21 | 23 32 11 | 23 18 13 | 4 4 | 55 27 | 16 26 | 14 |
| 16 | W | 17 | 40 | 18 | 24 33 17 | 23 21 25 | 0 4 | 59 28 | 20 26 | 11 |
| 17 | Th | 17 | 44 | 14 | 25 34 24 | 23 23 7 | 1 4 | 49 28 | 5 26 | 9 |
| 18 | F | 17 | 48 | 11 | 26 35 31 | 23 25 19 | 8 4 | 26 26 | 29 26 | 7 |
| 19 | S | 17 | 52 | 8 | 27 36 39 | 23 26 1 | 22 3 | 51 23 | 37 26 | 5 |
| 20 | S | 17 | 56 | 4 | 28 37 47 | 23 27 13 | 44 3 | 4 19 | 39 26 | 3 |
| 21 | M | 18 | 0 | 1 | 29 38 55 | 23 28 26 | 18 2 | 8 14 | 46 26 | 1 |
| 22 | Tu | 18 | 3 | 57 | 0 † 40 4 | 23 28 9 | × 4 1 | 4 9 | 10 25 | 54 |
| 23 | W | 18 | 7 | 54 | 1 41 12 | 23 27 22 | 8 0 | N 4 3 | 4 25 | 57 |
| 24 | Th | 18 | 11 | 50 | 2 42 21 | 23 26 5 | † 31 1 | 14 3 | N 20 25 | 56 |
| 25 | F | 18 | 15 | 47 | 3 43 29 | 23 24 19 | 18 2 | 22 9 | 45 25 | 54 |
| 26 | S | 18 | 19 | 43 | 4 44 37 | 23 22 3 | 29 3 | 23 15 | 52 25 | 53 |
| 27 | S | 18 | 23 | 40 | 5 45 46 | 23 20 18 | 8 4 | 13 21 | 16 25 | 51 |
| 28 | M | 18 | 27 | 37 | 6 46 54 | 23 17 2 | 57 4 | 46 25 | 37 25 | 49 |
| 29 | Tu | 18 | 31 | 33 | 7 48 2 | 23 14 18 | 4 5 | 1 27 | 55 25 | 48 |
| 30 | W | 18 | 35 | 30 | 8 49 11 | 23 10 3 | 13 4 | 54 28 | 19 25 | 46 |
| 31 | Th | 18 | 39 | 26 | 9 50 19 | 23 6 18 | 15 4 | 27 26 | 37 25 | 44 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| I | 1 N 31 | 2 S 10 | 1 N 20 | 15 S 56 | 1 S 36 | 24 S 18 | 23 x 4 |
| 4 | 1 31 | 2 48 | 1 15 | 17 1 | 1 48 | 24 56 | 22 54 |
| 7 | 1 32 | 8 28 | 1 9 | 18 2 | 1 59 | 25 22 | 22 45 |
| 10 | 1 32 | 4 8 | 1 8 | 18 59 | 2 7 | 25 36 | 22 35 |
| 13 | 1 33 | 4 47 | 0 57 | 19 51 | 2 13 | 25 36 | 22 25 |
| 16 | 1 33 | 5 26 | 0 51 | 20 38 | 2 15 | 25 23 | 22 16 |
| 19 | 1 34 | 6 4 | 0 44 | 21 20 | 2 11 | 24 56 | 22 6 |
| MM | 1 34 | 6 42 | 0 37 | 21 56 | 2 8 | 24 15 | 21 56 |
| 25 | 1 35 | 7 19 | 0 29 | 22 26 | 1 48 | 23 23 | 21 47 |
| 28 | 1 35 | 7 55 | 0 21 | 22 51 | 1 23 | 22 21 | 21 37 |
| 31 | 1 35 | 8 31 | 0 13 | 23 9 | 0 55 | 21 13 | 21 28 |

[illegible]

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----------------------------|----|----|----|----|----|-------|----|----|
| H. | M. | S. | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 32 | 5 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 1 | 55 | 37 | 1 | 12 | 20 | 18 | 11 | 6 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 2 | 6 | 59 | 4 | 15 | 22 | 20 | 9 | 8 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 |
| 0 | 40 | 26 | 11 | 21 | 4 | 5 | 19 | 22 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 48 | 13 |
| 0 | 44 | 8 | 12 | 22 | 4 | 5 | 58 | 23 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 |
| 0 | 47 | 50 | 13 | 23 | 5 | 6 | 36 | 23 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 6 | 15 |
| 0 | 51 | 32 | 14 | 24 | 6 | 7 | 14 | 24 | 2 | 46 | 8 | 14 | 24 | 30 | 26 | 48 | 15 |
| 0 | 55 | 14 | 15 | 25 | 7 | 7 | 53 | 24 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 20 | 16 |
| 0 | 59 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 2 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 3 | 3 | 8 | 18 | 28 | 3 | 28 | 32 | 19 |
| 1 | 10 | 7 | 19 | 30 | 10 | 10 | 25 | 27 | 3 | 6 | 9 | 19 | 29 | 4 | 0 | 54 | 20 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 36 | 21 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 3 | 14 | 15 | 21 | 0 | 6 | 1 | 17 | 22 |
| 1 | 21 | 20 | 22 | 3 | 13 | 12 | 22 | 29 | 3 | 18 | 19 | 22 | 1 | 7 | 2 | 59 | 23 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 30 | 3 | 22 | 23 | 23 | 2 | 8 | 3 | 41 | 24 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 3 | 26 | 20 | 24 | 3 | 8 | 4 | 23 | 25 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 3 | 30 | 35 | 25 | 4 | 8 | 5 | 5 | 26 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 2 | 3 | 34 | 41 | 26 | 5 | 9 | 6 | 47 | 27 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 3 | 38 | 49 | 27 | 6 | 10 | 6 | 30 | 28 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 3 | 42 | 57 | 28 | 7 | 11 | 7 | 12 | 29 |
| 1 | 47 | 49 | 29 | 10 | 18 | 16 | 53 | 4 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 30 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 31 |
| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 |
| H. | M. | S. | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 23 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 6 | 4 | 22 | 1 | 8 | 8 | 0 | 45 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 1 | 6 | 8 | 43 | 2 | 9 | 9 | 1 | 30 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 6 | 12 | 5 | 3 | 10 | 9 | 2 | 15 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 6 | 17 | 28 | 4 | 11 | 10 | 3 | 0 | 27 |
| 4 | 12 | 13 | 5 | 14 | 16 | 11 | 30 | 2 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 30 | 28 |
| 4 | 20 | 40 | 7 | 15 | 18 | 12 | 56 | 4 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | 30 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 29 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 56 | 31 | 13 | 19 | 18 | 0 | 42 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 7 |
| 4 | 59 | 10 | 16 | 24 | 25 | 19 | 33 | 12 | 7 | 9 | 28 | 16 | 22 | 20 | 11 | 56 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 11 |
| 5 | 16 | 29 | 20 | 27 | 29 | 22 | 31 | 15 | 7 | 26 | 34 | 20 | 25 | 23 | 14 | 52 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 36 | 13 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 20 | 14 |
| 5 | 29 | 30 | 23 | 30 | 1 | 24 | 45 | 17 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 15 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 16 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 7 | 47 | 47 | 25 | 30 | 28 | 18 | 30 | 17 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 7 | 52 | 0 | 26 | 1 | 29 | 19 | 12 | 18 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 7 | 56 | 12 | 27 | 2 | 30 | 19 | 57 | 19 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 8 | 0 | 24 | 28 | 3 | 31 | 20 | 49 | 20 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 8 | 4 | 35 | 29 | 4 | 1 | 21 | 22 | 21 |
| 5 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 9 | 8 | 46 | 30 | 5 | 2 | 22 | 6 | 22 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ' | | | | ° | ° | ° | ° | ' | ° | ' |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 23 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 29 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | 29 | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | 30 |
| 8 | 57 | 52 | 12 | 16 | 11 | Om | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 3 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 4 |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | f | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 5 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 6 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 7 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 8 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 9 |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 10 |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 13 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 11 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | 29 | 12 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 13 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 14 |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 15 |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 16 |
| 10 | 0 | 43 | 28 | 29 | 24 | 11 | 9 | 10 | 18 | 11 | 53 | 40 | 28 | 26 | 15 | 0 | 35 | 4 | 17 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 18 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 19 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ' | | | | ° | ° | ° | ° | ' | ° | ' |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 13 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 3 | 40 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 13 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 28 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 13 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | 29 |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 23 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 12 | 2 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 13 | 3 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 27 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 4 |
| 12 | 26 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 28 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 5 |
| 12 | 30 | 23 | 8 | 3 | 22 | 7 | 6 | 13 | 29 | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 6 |
| 12 | 33 | 4 | 9 | 4 | 22 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0 | 45 | 20 | 7 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | f | 16 | 1 | 40 | 21 | 8 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 22 | 9 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 23 | 10 |
| 12 | 47 | 50 | 13 | 7 | 25 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 24 | 11 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 25 | 12 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 26 | 13 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | 27 | 14 |
| 12 | 2 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 28 | 15 |
| 12 | 6 | 22 | 18 | 11 | 29 | 14 | 0 | 23 | 11 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 33 | 29 | 16 |
| 12 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 12 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 36 | 30 | 17 |
| 12 | 13 | 51 | 20 | 13 | f | 15 | 27 | 25 | 13 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 31 | 18 |
| 12 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 14 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 32 | 19 |
| 12 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 15 | 15 | 18 | 19 | 22 | 10 | 26 | 13 | 0 | 33 | 20 |
| 12 | 25 | 6 | 23 | 15 | 2 | 17 | 38 | 29 | 16 | 15 | 22 | 23 | 23 | 11 | 27 | 14 | 10 | 34 | 21 |
| 12 | 29 | 52 | 24 | 16 | 3 | 18 | 25 | m | 17 | 15 | 26 | 29 | 24 | 12 | 28 | 15 | 21 | 35 | 22 |
| 12 | 32 | 38 | 25 | 17 | 4 | 19 | 10 | 1 | 18 | 15 | 30 | 35 | 25 | 13 | 29 | 16 | 27 | 36 | 23 |
| 12 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 19 | 15 | 34 | 41 | 26 | 14 | v | 17 | 53 | 37 | 24 |
| 12 | 40 | 12 | 27 | 19 | 6 | 20 | 43 | 3 | 20 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 38 | 25 |
| 12 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 21 | 15 | 42 | 57 | 28 | 16 | 2 | 21 | 29 | 39 | 26 |
| 12 | 47 | 48 | 29 | 21 | 7 | 22 | 16 | 5 | 22 | 15 | 47 | 6 | 29 | 16 | 3 | 22 | 50 | 40 | 27 |
| 12 | 51 | 27 | 30 | 22 | 8 | 23 | 4 | 6 | 23 | 15 | 51 | 15 | 30 | 17 | 4 | 23 | 19 | 41 | 28 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|--------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | | ° | ° | | | | ° | ° | ° | ° | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 28 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 23 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 13 | 5 | 46 | 23 | 15 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 35 | 25 | 18 |
| 16 | 8 | 0 | 4 | 21 | 8 | Oma 11 | | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 23 | 18 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 56 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 11 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 22 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 2 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 24 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 28 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 30 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 3 | 3 | 58 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 4 | 9 | 11 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 12 | 30 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 3 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 25 | O 7 | | 2 | 11 | 19 | 22 | 18 | 19 | 9 | 12 | 17 | 29 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 2 | 19 | 26 | 34 | 20 | 10 | 14 | 19 | 24 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 22 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 22 | 26 | 32 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 12 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 49 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 11 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 24 | 28 | 20 | 7 | 2 | 51 | 25 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 21 | 1 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 13 | 20 | 8 | 45 | 30 | 23 | 3 | 5 | 47 | 26 | 13 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | | ° | ° | | | | ° | ° | ° | ° | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 22 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 22 | 9 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 22 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 32 | 28 | 14 | 22 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 24 | 10 |
| 20 | 21 | 11 | 3 | 27 | 9 | 9 | 50 | 29 | 15 | 22 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 24 | 11 |
| 20 | 25 | 19 | 4 | 28 | 11 | 11 | 7 | 30 | 16 | 22 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 25 | 12 |
| 20 | 29 | 26 | 5 | 29 | 13 | 12 | 28 | 1 | 17 | 22 | 27 | 22 | 5 | 9 | 28 | 10 | 50 | 26 | 13 |
| 20 | 33 | 31 | 6 | 30 | 15 | 13 | 39 | 2 | 18 | 22 | 31 | 8 | 6 | 10 | 11 | 11 | 36 | 26 | 13 |
| 20 | 37 | 37 | 7 | 31 | 17 | 14 | 50 | 3 | 19 | 22 | 34 | 54 | 7 | 12 | 1 | 12 | 22 | 27 | 14 |
| 20 | 41 | 41 | 8 | 32 | 18 | 16 | 0 | 4 | 20 | 22 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 28 | 15 |
| 20 | 45 | 45 | 9 | 33 | 20 | 17 | 8 | 5 | 21 | 22 | 42 | 26 | 9 | 14 | 3 | 13 | 40 | 29 | 16 |
| 20 | 49 | 48 | 10 | 34 | 22 | 18 | 16 | 6 | 22 | 22 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 29 | 17 |
| 20 | 53 | 51 | 11 | 35 | 24 | 19 | 22 | 7 | 23 | 22 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 30 | 18 |
| 20 | 57 | 53 | 12 | 36 | 26 | 20 | 27 | 7 | 24 | 22 | 53 | 37 | 12 | 18 | 7 | 16 | 0 | 1 | 19 |
| 21 | 1 | 53 | 13 | 37 | 27 | 21 | 30 | 8 | 25 | 22 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 2 | 20 |
| 21 | 5 | 53 | 14 | 38 | 29 | 22 | 32 | 9 | 26 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 3 | 21 |
| 21 | 9 | 53 | 15 | 39 | 31 | 23 | 32 | 10 | 27 | 23 | 4 | 46 | 15 | 22 | 10 | 18 | 7 | 4 | 22 |
| 21 | 13 | 52 | 16 | 40 | 32 | 24 | 32 | 11 | 28 | 23 | 8 | 28 | 16 | 23 | 11 | 19 | 49 | 5 | 23 |
| 21 | 17 | 50 | 17 | 41 | 33 | 25 | 30 | 12 | 29 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 6 | 24 |
| 21 | 21 | 47 | 18 | 42 | 34 | 26 | 28 | 13 | 30 | 23 | 15 | 52 | 18 | 25 | 13 | 20 | 12 | 7 | 25 |
| 21 | 25 | 44 | 19 | 43 | 35 | 27 | 24 | 14 | 31 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 8 | 26 |
| 21 | 29 | 40 | 20 | 44 | 36 | 28 | 20 | 15 | 32 | 23 | 23 | 15 | 20 | 28 | 15 | 21 | 34 | 9 | 27 |
| 21 | 33 | 35 | 21 | 45 | 37 | 29 | 15 | 16 | 33 | 23 | 26 | 56 | 21 | 29 | 16 | 22 | 14 | 10 | 28 |
| 21 | 37 | 29 | 22 | 46 | 38 | 30 | 9 | 17 | 34 | 23 | 30 | 37 | 22 | 30 | 17 | 23 | 52 | 11 | 29 |
| 21 | 41 | 23 | 23 | 47 | 39 | 31 | 1 | 18 | 35 | 23 | 34 | 18 | 23 | 31 | 18 | 24 | 23 | 12 | 30 |
| 21 | 45 | 16 | 24 | 48 | 40 | 32 | 55 | 19 | 36 | 23 | 37 | 58 | 24 | 32 | 19 | 24 | 13 | 13 | 31 |
| 21 | 49 | 9 | 25 | 49 | 41 | 33 | 47 | 20 | 37 | 23 | 41 | 39 | 25 | 33 | 20 | 24 | 53 | 14 | 32 |
| 21 | 53 | 1 | 26 | 50 | 42 | 34 | 39 | 21 | 38 | 23 | 45 | 19 | 26 | 34 | 21 | 25 | 33 | 15 | 33 |
| 21 | 56 | 52 | 27 | 51 | 43 | 35 | 29 | 22 | 39 | 23 | 49 | 0 | 27 | 35 | 22 | 26 | 11 | 16 | 34 |
| 22 | 0 | 43 | 28 | 52 | 44 | 36 | 18 | 23 | 40 | 23 | 52 | 40 | 28 | 36 | 23 | 27 | 49 | 17 | 35 |
| 22 | 4 | 33 | 29 | 53 | 45 | 37 | 7 | 24 | 41 | 23 | 56 | 30 | 29 | 37 | 24 | 28 | 37 | 18 | 36 |
| 22 | 8 | 23 | 30 | 54 | 46 | 38 | 58 | 25 | 42 | 24 | 0 | 0 | 30 | 38 | 25 | 29 | 38 | 19 | 37 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING** and **RESTORATIVE** Properties. Hence their invariable success in the **RELIEF** and **CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 6d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

AND Invalids should read Crosby's Prize Treatise on "**DISEASES OF THE LUNGS AND AIR VESICLES**," a copy of which can be had **Gratis** of all Chemists,

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which is at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdues Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment in this disease."

CROSBY'S BALSAMIC COUGH ELIXIR

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c. may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,

CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Ask your Chemist for the New Edition (GRAYS) of Crosby's Free Treatise on "DISEASES OF THE LUNGS AND AIR-VESSELS," containing full and plain instructions for the relief and cure of these diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

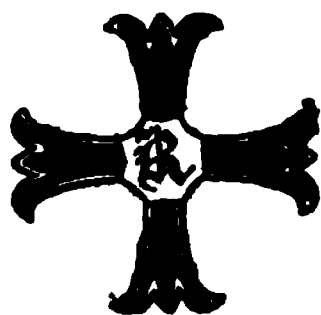
CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1858.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling:

(Alm.) 939t.160

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE.

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spiritous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. Rook, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Rook, under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or post free from Dr. Rook, Scarborough, England.

DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 173 pages.

RAPHAEL'S

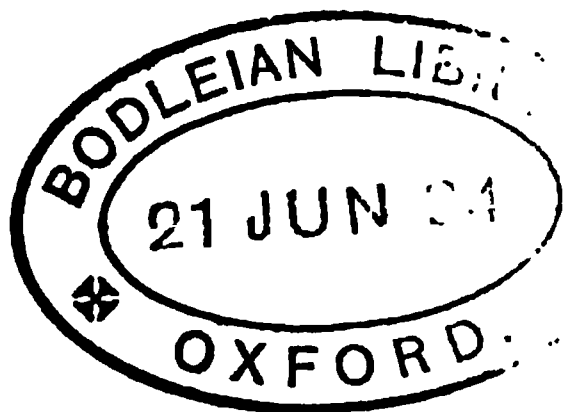
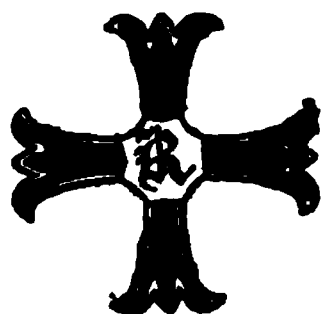
ASTRONOMICAL EPHEMERIS

OF THE

PLANETS' PLACES

For 1858.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 18 | 08 | 13 | 08 | 6 | 21 | 9 |
| 4 | 16 | 18 | 0 | 13 | 0 | 6 | 21 | 9 |
| 7 | 16 | 18 | 0 | 13 | 0 | 6 | 21 | 9 |
| 10 | 16 | 18 | 0 | 12 | 0 | 6 | 21 | 12 |
| 13 | 16 | 18 | 0 | 12 | 0 | 7 | 21 | 15 |
| 16 | 16 | 18 | 0 | 12 | 0 | 7 | 21 | 18 |
| 19 | 16 | 17 | 0 | 12 | 0 | 7 | 21 | 21 |
| 22 | 16 | 17 | 0 | 12 | 0 | 8 | 21 | 24 |
| 25 | 16 | 17 | 0 | 12 | 0 | 8 | 21 | 27 |
| 28 | 16 | 17 | 0 | 12 | 0 | 9 | 21 | 30 |
| 31 | 16 | 16 | 0 | 12 | 0 | 9 | 21 | 32 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | F | 18 43 23 | 10 | 51 28 | 23 | 8 1 | 2 | 59 |
| 2 | S | 18 47 19 | 11 | 52 36 | 22 | 56 17 | 2 | 45 |
| 3 | S | 18 51 16 | 12 | 53 45 | 22 | 50 1 | 1 | 39 |
| 4 | M | 18 55 13 | 13 | 54 53 | 22 | 44 14 | 0 | 30 |
| 5 | Tu | 18 59 9 | 14 | 56 2 | 22 | 37 27 | 0 | 8 |
| 6 | W | 19 3 6 | 15 | 57 11 | 22 | 30 9 | 1 | 44 |
| 7 | Th | 19 7 2 | 16 | 58 20 | 22 | 23 22 | 2 | 42 |
| 8 | F | 19 10 59 | 17 | 59 29 | 22 | 16 4 | 3 | 32 |
| 9 | S | 19 14 55 | 19 | 0 38 | 22 | 7 16 | 4 | 13 |
| 10 | S | 19 18 52 | 20 | 1 47 | 21 | 58 27 | 4 | 42 |
| 11 | M | 19 22 48 | 21 | 2 55 | 21 | 49 9 | 4 | 59 |
| 12 | Tu | 19 26 45 | 22 | 4 4 | 21 | 39 21 | 5 | 4 |
| 13 | W | 19 30 42 | 23 | 5 12 | 21 | 29 3 | 4 | 55 |
| 14 | Th | 19 34 38 | 24 | 6 20 | 21 | 19 15 | 4 | 32 |
| 15 | F | 19 38 35 | 25 | 7 27 | 21 | 8 28 | 3 | 57 |
| 16 | S | 19 42 31 | 26 | 8 34 | 20 | 56 10 | 8 | 10 |
| 17 | S | 19 46 28 | 27 | 9 40 | 20 | 45 23 | 2 | 12 |
| 18 | M | 19 50 24 | 28 | 10 46 | 20 | 33 6 | 1 | 7 |
| 19 | Tu | 19 54 21 | 29 | 11 50 | 20 | 20 19 | 0 | N |
| 20 | W | 19 58 17 | 0 | ma 12 | 54 | 20 7 | 1 | 13 |
| 21 | Th | 20 2 14 | 1 | 13 56 | 19 | 54 15 | 2 | 21 |
| 22 | F | 20 6 11 | 2 | 14 58 | 19 | 41 29 | 3 | 22 |
| 23 | S | 20 10 7 | 3 | 15 58 | 19 | 27 13 | 4 | 13 |
| 24 | S | 20 14 4 | 4 | 16 58 | 19 | 12 27 | 4 | 49 |
| 25 | M | 20 18 0 | 5 | 17 56 | 18 | 58 12 | 5 | 7 |
| 26 | Tu | 20 21 57 | 6 | 18 53 | 18 | 43 27 | 5 | 5 |
| 27 | W | 20 25 53 | 7 | 19 49 | 18 | 27 11 | 4 | 44 |
| 28 | Th | 20 29 50 | 8 | 20 44 | 18 | 12 26 | 4 | 4 |
| 29 | F | 20 33 46 | 9 | 21 37 | 17 | 56 10 | 8 | 8 |
| 30 | S | 20 37 43 | 10 | 22 30 | 17 | 39 25 | 2 | 2 |
| 31 | S | 20 41 40 | 11 | 23 22 | 17 | 28 8 | 0 | 50 |

1858.]

RAPHAEL'S ASTRONOMICAL EPHEMERIS.

8

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 35 | 8 S 42 | 0 N 12 | 23 S 13 | 0 S 42 | 20 S 40 | 21 * 26 |
| 4 | 1 35 | 9 17 | 0 5 | 23 23 | 0 N 4 | 19 44 | 21 16 |
| 7 | 1 35 | 9 51 | 0 S 3 | 23 26 | 0 56 | 18 50 | 21 7 |
| 10 | 1 35 | 10 24 | 0 11 | 23 23 | 1 46 | 18 15 | 20 57 |
| 13 | 1 35 | 10 56 | 0 19 | 23 13 | 2 44 | 18 3 | 20 48 |
| 16 | 1 35 | 11 28 | 0 25 | 22 56 | 3 8 | 18 11 | 20 38 |
| 19 | 1 35 | 11 59 | 0 32 | 22 34 | 3 30 | 18 32 | 20 29 |
| 22 | 1 35 | 12 28 | 0 38 | 22 5 | 3 24 | 19 1 | 20 19 |
| 25 | 1 35 | 12 57 | 0 45 | 21 30 | 3 0 | 19 31 | 20 10 |
| 28 | 1 35 | 13 25 | 0 50 | 20 49 | 2 35 | 20 0 | 20 0 |
| 31 | 1 35 | 13 52 | 0 57 | 20 3 | 2 0 | 20 24 | 19 50 |

| D
M | h | | ♄ | | ♃ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|-----|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 26 55 | 2 | 5 57 | 26 22 | 26 53 | 0 5 | 5 | 5 | 5 | 5 | | | * | ♈ | ☐ | ☐ | | ♌ |
| 2 | 25 57 | 5 | 58 26 | 55 28 | 8 | 0 46 | 46 | 46 | 46 | 46 | | | | | | | | |
| 3 | 25 53 | 5 | 59 27 | 27 29 | 24 | 1 20 | 20 | 20 | 20 | 20 | | | ☐ | | Δ | * | Δ | |
| 4 | 25 49 | 6 | 0 28 | 0 0 | 40 | 1 44 | 44 | 44 | 44 | 44 | | Δ | | | | | | |
| 5 | 25 44 | 6 | 1 28 | 32 1 | 55 | 1 38 | 38 | 38 | 38 | 38 | | | Δ | * | | | ☐ | Δ |
| 6 | 25 38 | 6 | 2 29 | 4 3 | 10 | 2 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 7 | 25 33 | 6 | 4 29 | 36 4 | 25 | 1 53 | 53 | 53 | 53 | 53 | ♈ * ♈ | ☐ | | ☐ | ♌ | | | |
| 8 | 25 27 | 6 | 6 0 | 8 5 | 41 | 1 33 | 33 | 33 | 33 | 33 | ♀ Δ ♄ | | | | | | ♈ * | ☐ |
| 9 | 25 22 | 6 | 8 0 | 40 6 | 56 | 1 1 | 1 | 1 | 1 | 1 | ♀ ☐ ♂ | * | | | | | ♈ * | ☐ |
| 10 | 25 17 | 6 | 10 1 | 11 8 | 11 | 0 19 | 19 | 19 | 19 | 19 | | | ♌ | Δ | | | | * |
| 11 | 25 12 | 6 | 12 1 | 42 9 | 27 29 | 24 | 24 | 24 | 24 | 24 | | | | | | | | |
| 12 | 25 7 | 6 | 14 2 | 13 10 | 42 28 | 21 | 21 | 21 | 21 | 21 | | | | | | | | |
| 13 | 25 2 | 6 | 17 2 | 45 11 | 58 27 | 11 | 11 | 11 | 11 | 11 | | | | | | Δ | * | |
| 14 | 24 58 | 6 | 20 3 | 16 13 | 13 25 | 56 | 56 | 56 | 56 | 56 | ♌ Δ ♈ | ♈ | Δ | ♌ | | | ♈ | ♈ |
| 15 | 24 53 | 6 | 23 3 | 48 14 | 28 24 | 38 | 38 | 38 | 38 | 38 | ☉ ♂ ♈ | ♈ | Δ | ♌ | | | | ♈ |
| 16 | 24 48 | 6 | 26 4 | 19 15 | 44 23 | 20 | 20 | 20 | 20 | 20 | ♀ ♂ ♈ | | | | ☐ | ☐ | | |
| 17 | 24 43 | 6 | 29 4 | 50 16 | 59 22 | 3 | 3 | 3 | 3 | 3 | | | ☐ | | | | | |
| 18 | 24 38 | 6 | 33 5 | 21 18 | 14 20 | 51 | 51 | 51 | 51 | 51 | | | | | | ♈ | Δ | |
| 19 | 24 33 | 6 | 37 5 | 52 19 | 30 19 | 46 | 46 | 46 | 46 | 46 | ♀ ♂ ♈ | * | * | Δ | | | | |
| 20 | 24 28 | 6 | 41 6 | 22 20 | 45 18 | 47 | 47 | 47 | 47 | 47 | | * | | | | | | |
| 21 | 24 24 | 6 | 45 6 | 52 22 | 0 17 | 56 | 56 | 56 | 56 | 56 | ♌ ☐ ♄ | | | | | | | ☐ |
| 22 | 24 19 | 6 | 49 7 | 22 23 | 16 17 | 14 | 14 | 14 | 14 | 14 | | ☐ | | | ☐ | ♈ | ☐ | ☐ |
| 23 | 24 14 | 6 | 53 7 | 52 24 | 31 16 | 42 | 42 | 42 | 42 | 42 | ♀ ♂ ♈ | | | | ♈ | ♌ | | Δ |
| 24 | 24 9 | 6 | 58 8 | 22 25 | 46 16 | 19 | 19 | 19 | 19 | 19 | ♀ Δ ♈ | Δ | ♈ | * | | | Δ | |
| 25 | 24 4 | 7 | 3 8 | 51 27 | 1 16 | 4 | 4 | 4 | 4 | 4 | | | | | | | | |
| 26 | 24 0 | 7 | 8 9 | 21 28 | 17 15 | 57 | 57 | 57 | 57 | 57 | | | | | | | | |
| 27 | 23 55 | 7 | 13 9 | 50 29 | 32 15 | D 59 | 59 | 59 | 59 | 59 | ☉ ☐ ♄ | | | | | Δ | | ♌ |
| 28 | 23 50 | 7 | 19 10 | 19 0 | 48 16 | 8 | 8 | 8 | 8 | 8 | | | * | ♈ | | | ♌ | |
| 29 | 23 46 | 7 | 25 10 | 48 2 | 3 16 | 24 | 24 | 24 | 24 | 24 | | ♌ | | | | ☐ | ☐ | |
| 30 | 23 41 | 7 | 31 11 | 17 3 | 18 16 | 47 | 47 | 47 | 47 | 47 | | | ☐ | | | | | |
| 31 | 23 36 | 7 | 37 11 | 46 4 | 33 17 | 17 | 17 | 17 | 17 | 17 | | | | | Δ | * | | |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 8 12 | 18 N 54 | 0 N 9 | 21 N 33 | 0 8 59 | 13 N 5 |
| 4 | 16 | 15 | 0 12 | 18 54 | 0 9 | 21 36 | 0 59 | 13 15 |
| 7 | 16 | 15 | 0 12 | 18 54 | 0 10 | 21 38 | 0 58 | 13 23 |
| 10 | 16 | 14 | 0 12 | 18 55 | 0 10 | 21 41 | 0 58 | 13 31 |
| 13 | 16 | 14 | 0 12 | 18 55 | 0 11 | 21 44 | 0 57 | 13 39 |
| 16 | 16 | 13 | 0 12 | 18 56 | 0 11 | 21 45 | 0 56 | 13 47 |
| 19 | 16 | 12 | 0 12 | 18 56 | 0 11 | 21 47 | 0 55 | 13 55 |
| 22 | 16 | 12 | 0 12 | 18 57 | 0 11 | 21 49 | 0 55 | 14 3 |
| 25 | 16 | 11 | 0 12 | 18 58 | 0 11 | 21 50 | 0 54 | 14 11 |
| 28 | 16 | 10 | 0 12 | 18 59 | 0 12 | 21 52 | 0 53 | 14 19 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | M | 20 45 36 | 12 24 12 | 17 S 6 | 22 15 | 0 8 22 | 2 N 44 | 25 17 |
| 2 | Tu | 20 49 33 | 13 25 2 | 16 49 | 5 14 | 1 32 | 3 S 29 | 25 17 |
| 3 | W | 20 53 29 | 14 25 51 | 16 31 | 17 51 | 2 35 | 9 23 | 25 17 |
| 4 | Th | 20 57 26 | 15 26 39 | 16 13 | 0 9 | 3 29 | 14 48 | 25 17 |
| 5 | F | 21 1 22 | 16 27 26 | 15 55 | 12 14 | 4 13 | 19 32 | 25 17 |
| 6 | S | 21 5 19 | 17 28 11 | 15 37 | 24 9 | 4 46 | 23 26 | 25 17 |
| 7 | S | 21 9 15 | 18 28 56 | 15 18 | 6 1 | 5 6 | 26 21 | 25 17 |
| 8 | M | 21 13 12 | 19 29 40 | 14 59 | 17 54 | 5 13 | 28 6 | 25 17 |
| 9 | Tu | 21 17 9 | 20 30 23 | 14 40 | 29 51 | 5 6 | 28 34 | 25 17 |
| 10 | W | 21 21 5 | 21 31 5 | 14 21 | 11 57 | 4 46 | 27 40 | 25 17 |
| 11 | Th | 21 25 2 | 22 31 45 | 14 1 | 24 14 | 4 13 | 25 26 | 25 17 |
| 12 | F | 21 28 58 | 23 32 24 | 13 41 | 6 45 | 3 27 | 21 56 | 25 17 |
| 13 | S | 21 32 55 | 24 33 2 | 13 21 | 19 29 | 2 29 | 17 21 | 25 17 |
| 14 | S | 21 36 51 | 25 33 38 | 13 1 | 2 28 | 1 23 | 11 54 | 25 17 |
| 15 | M | 21 40 48 | 26 34 13 | 12 40 | 15 41 | 0 12 | 5 50 | 25 17 |
| 16 | Tu | 21 44 44 | 27 34 46 | 12 19 | 29 6 | 1 N 2 | 0 N 35 | 25 17 |
| 17 | W | 21 48 41 | 28 35 17 | 11 55 | 12 43 | 2 13 | 7 4 | 25 17 |
| 18 | Th | 21 52 38 | 29 35 47 | 11 37 | 26 30 | 3 17 | 13 18 | 25 17 |
| 19 | F | 21 56 34 | 0 36 14 | 11 16 | 10 36 | 4 11 | 18 56 | 25 17 |
| 20 | S | 22 0 31 | 1 36 40 | 10 55 | 24 30 | 4 50 | 23 36 | 25 17 |
| 21 | S | 22 4 27 | 2 37 4 | 10 33 | 8 41 | 5 12 | 26 54 | 25 17 |
| 22 | M | 22 8 24 | 3 37 25 | 10 11 | 22 56 | 5 15 | 28 30 | 25 17 |
| 23 | Tu | 22 12 20 | 4 37 45 | 9 49 | 7 12 | 4 58 | 28 13 | 25 17 |
| 24 | W | 22 16 17 | 5 38 3 | 9 27 | 21 27 | 4 23 | 26 5 | 25 17 |
| 25 | Th | 22 20 13 | 6 38 19 | 9 5 | 5 36 | 3 33 | 22 19 | 25 17 |
| 26 | F | 22 24 10 | 7 38 33 | 8 43 | 19 35 | 2 30 | 17 19 | 25 17 |
| 27 | S | 22 28 7 | 8 38 45 | 8 20 | 3 22 | 1 19 | 11 30 | 25 17 |
| 28 | S | 22 32 3 | 9 38 56 | 7 57 | 16 51 | 0 5 | 5 16 | 25 17 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | |
| 1 | 1 N 35 | 14 S 1 | 0 S 58 | 19 S 46 | 1 N 46 | 20 S 31 | 19 47 |
| 4 | 1 34 | 14 26 | 1 3 | 18 53 | 1 14 | 20 46 | 19 38 |
| 7 | 1 34 | 14 51 | 1 8 | 17 55 | 0 40 | 20 58 | 19 28 |
| 10 | 1 33 | 15 15 | 1 12 | 16 52 | 0 13 | 20 49 | 19 19 |
| 13 | 1 32 | 15 38 | 1 16 | 15 45 | 0 S 17 | 20 36 | 19 9 |
| 16 | 1 32 | 15 59 | 1 19 | 14 34 | 0 40 | 20 11 | 19 0 |
| 19 | 1 31 | 16 22 | 1 21 | 13 19 | 1 3 | 19 34 | 18 50 |
| 22 | 1 31 | 16 40 | 1 23 | 12 1 | 1 21 | 18 47 | 18 41 |
| 25 | 1 30 | 16 59 | 1 25 | 10 41 | 1 38 | 17 47 | 18 31 |
| 28 | 1 29 | 17 16 | 1 25 | 9 17 | 1 52 | 16 36 | 18 22 |

D
M1
23
45
67
89
1011
1213
1415
1617
1819
20

| | | | | | | | | | | | | | |
|----|----|-------|-------|----|------|-------|-------|---|---|---|---|---|---|
| 21 | 22 | 14 10 | 18 21 | 1 | 0 53 | 9 45 | ♂ □ ♀ | □ | | | | | Δ |
| 22 | 22 | 11 10 | 27 21 | 25 | 2 8 | 11 10 | | | | | | | |
| 23 | 22 | 8 10 | 36 21 | 48 | 3 23 | 12 36 | | Δ | * | ♂ | * | Δ | Δ |
| 24 | 22 | 5 10 | 46 22 | 11 | 4 38 | 14 3 | ♂ Δ ♀ | | * | ♂ | □ | | |
| 25 | 22 | 2 10 | 56 22 | 34 | 5 53 | 15 31 | | | | | □ | | |
| 26 | 21 | 59 11 | 5 22 | 56 | 7 8 | 17 1 | ☉ □ ♀ | ♂ | □ | | | □ | ♂ |
| 27 | 21 | 56 11 | 15 23 | 18 | 8 23 | 18 32 | | ♂ | | | | | ♂ |
| 28 | 21 | 53 11 | 25 23 | 40 | 9 38 | 20 3 | ♀ ♂ ☉ | | | * | Δ | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 12 | 18 N 59 | 0 N 12 | 21 N 52 | 0 S 53 | 14 N 28 |
| 4 | 16 | 8 | 0 12 | 19 0 | 0 12 | 21 54 | 0 52 | 14 38 |
| 7 | 16 | 8 | 0 12 | 19 2 | 0 12 | 21 55 | 0 51 | 14 49 |
| 10 | 16 | 7 | 0 12 | 19 3 | 0 13 | 21 56 | 0 51 | 14 59 |
| 13 | 16 | 6 | 0 12 | 19 4 | 0 13 | 21 57 | 0 50 | 15 10 |
| 16 | 16 | 5 | 0 12 | 19 6 | 0 13 | 21 57 | 0 50 | 15 21 |
| 19 | 16 | 4 | 0 12 | 19 7 | 0 14 | 21 58 | 0 50 | 15 32 |
| 22 | 16 | 4 | 0 12 | 19 9 | 0 14 | 21 58 | 0 49 | 15 42 |
| 25 | 16 | 3 | 0 12 | 19 11 | 0 14 | 21 59 | 0 49 | 15 54 |
| 28 | 16 | 2 | 0 12 | 19 12 | 0 14 | 21 59 | 0 48 | 16 5 |
| 31 | 16 | 1 | 0 12 | 19 14 | 0 15 | 21 58 | 0 48 | 16 16 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 22 36 0 | 10 × 39 4 | 7 S 35 | 0 ♄ 4 | 1 S 8 | 1 S 4 | 25 × 36 |
| 2 | Tu | 22 39 56 | 11 39 11 | 7 12 | 12 57 | 2 15 7 | 12 | 25 37 |
| 3 | W | 22 43 53 | 12 39 16 | 6 49 | 25 33 | 3 14 | 12 54 | 25 39 |
| 4 | Th | 22 47 49 | 13 39 20 | 6 26 | 7 m 53 | 4 3 | 17 59 | 25 40 |
| 5 | F | 22 51 46 | 14 39 22 | 6 3 | 20 0 | 4 41 | 22 15 | 25 42 |
| 6 | S | 22 55 42 | 15 39 22 | 5 40 | 1 f 58 | 5 5 | 25 33 | 25 43 |
| 7 | S | 22 59 39 | 16 39 20 | 5 16 | 13 51 | 5 16 | 27 43 | 25 45 |
| 8 | M | 23 3 36 | 17 39 17 | 4 53 | 25 45 | 5 14 | 28 37 | 25 47 |
| 9 | Tu | 23 7 32 | 18 39 13 | 4 30 | 7 w 43 | 4 58 | 28 12 | 25 48 |
| 10 | W | 23 11 29 | 19 39 6 | 4 6 | 19 50 | 4 29 | 26 26 | 25 50 |
| 11 | Th | 23 15 25 | 20 38 58 | 3 43 | 2 m 10 | 3 47 | 23 23 | 25 52 |
| 12 | F | 23 19 22 | 21 38 49 | 3 19 | 14 47 | 2 53 | 19 10 | 25 54 |
| 13 | S | 23 23 18 | 22 38 37 | 2 55 | 27 42 | 1 49 | 18 59 | 25 56 |
| 14 | S | 23 27 15 | 23 38 24 | 2 32 | 10 × 57 | 0 38 8 | 3 | 25 58 |
| 15 | M | 23 31 11 | 24 38 8 | 2 8 | 24 32 | 0 N 37 | 1 36 | 26 0 |
| 16 | Tu | 23 35 8 | 25 37 51 | 1 44 | 8 r 23 | 1 51 | 5 N 2 | 26 2 |
| 17 | W | 23 39 5 | 26 37 31 | 1 21 | 22 29 | 3 0 | 11 33 | 26 4 |
| 18 | Th | 23 43 1 | 27 37 9 | 0 57 | 6 s 44 | 3 59 | 17 32 | 26 6 |
| 19 | F | 23 46 58 | 28 36 45 | 0 33 | 21 5 | 4 43 | 22 35 | 26 9 |
| 20 | S | 23 50 54 | 29 36 19 | 0 9 | 5 n 26 | 5 9 | 26 17 | 26 11 |
| 21 | S | 23 54 51 | 0 r 35 51 | 0 N 14 | 19 44 | 5 16 | 28 19 | 26 13 |
| 22 | M | 23 58 47 | 1 35 20 | 0 38 | 3 s 57 | 5 4 | 28 27 | 26 16 |
| 23 | Tu | 0 2 44 | 2 34 47 | 1 2 | 18 0 | 4 33 | 26 45 | 26 19 |
| 24 | W | 0 6 40 | 3 34 11 | 1 25 | 1 s 54 | 3 47 | 23 26 | 26 21 |
| 25 | Th | 0 10 37 | 4 33 34 | 1 49 | 15 37 | 2 48 | 18 51 | 26 24 |
| 26 | F | 0 14 34 | 5 32 54 | 2 12 | 29 9 | 1 41 | 13 23 | 26 26 |
| 27 | S | 0 18 30 | 6 32 11 | 2 36 | 12 m 28 | 0 29 7 | 21 | 26 28 |
| 28 | S | 0 22 27 | 7 31 27 | 2 59 | 25 34 | 0 S 43 | 1 7 | 26 31 |
| 29 | M | 0 26 23 | 8 30 40 | 3 23 | 8 ♄ 27 | 1 51 5 S | 4 | 26 33 |
| 30 | Tu | 0 30 20 | 9 29 52 | 3 46 | 21 7 | 2 53 | 10 55 | 26 35 |
| 31 | W | 0 34 16 | 10 29 1 | 4 9 | 3 m 34 | 3 46 | 16 15 | 26 38 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N 28 | 17 S 22 | 1 S 26 | 8 S 49 | 1 S 58 | 16 S 10 | 18 × 18 |
| 4 | 1 26 | 17 39 | 1 26 | 7 23 | 2 4 | 14 43 | 18 9 |
| 7 | 1 24 | 17 54 | 1 26 | 5 55 | 2 10 | 13 5 | 17 59 |
| 10 | 1 23 | 18 9 | 1 26 | 4 26 | 2 11 | 11 15 | 17 50 |
| 13 | 1 21 | 18 22 | 1 24 | 2 55 | 2 9 | 9 18 | 17 40 |
| 16 | 1 19 | 18 35 | 1 22 | 1 24 | 2 3 | 7 1 | 17 31 |
| 19 | 1 17 | 18 47 | 1 20 | 0 N 7 | 1 52 | 4 38 | 17 21 |
| 22 | 1 15 | 18 58 | 1 17 | 1 39 | 1 35 | 2 5 | 17 12 |
| 25 | 1 12 | 19 8 | 1 13 | 3 10 | 1 12 | 0 N 37 | 17 2 |
| 28 | 1 8 | 19 17 | 1 9 | 4 41 | 0 46 | 3 25 | 16 53 |
| 31 | 1 4 | 19 26 | 1 4 | 6 11 | 0 16 | 6 16 | 16 43 |

| D
M | h | | ♂ | | ♀ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|-------|-------|-------|-------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 21 55 | 11 35 | 24 2 | 10 52 | 21 35 | | | Δ | | | * | | |
| 2 | 21 49 | 11 45 | 24 23 | 12 8 | 23 8 | ☉ * ♀ | | | | | | | |
| 3 | 21 47 | 11 55 | 24 44 | 13 23 | 24 44 | ♂ □ ♀ | | | □ | | | | Δ |
| 4 | 21 45 | 12 6 | 25 5 | 14 36 | 26 20 | ♀ □ ♀ | | | | ♂ | | | |
| 5 | 21 43 | 12 16 | 25 25 | 15 52 | 27 57 | | | Δ | ♂ | Δ | ♂ | Δ | |
| 6 | 21 41 | 12 27 | 25 45 | 17 7 | 29 35 | ♂ ♀ ♀ | | | | | | | □ |
| 7 | 21 39 | 12 38 | 26 4 | 18 22 | 1 15 | | | | | | | □ | □ |
| 8 | 21 38 | 12 49 | 26 23 | 19 8 | 2 55 | | | | | | | | |
| 9 | 21 36 | 13 0 | 26 42 | 20 52 | 4 36 | | | | | | | * | * |
| 10 | 21 34 | 13 11 | 27 0 | 22 7 | 6 19 | ♀ Δ h | | | | | * | | |
| 11 | 21 32 | 13 22 | 27 18 | 23 22 | 8 3 | | | | | | | | |
| 12 | 21 31 | 13 33 | 27 35 | 24 37 | 9 48 | ☉ Δ h | | | | | | | |
| 13 | 21 30 | 13 44 | 27 52 | 25 51 | 11 35 | ♀ * h | | | | | | | |
| 14 | 21 29 | 13 56 | 28 9 | 27 6 | 13 22 | ♀ * ♀ | | | | | | | ♂ |
| 15 | 21 29 | 14 7 | 28 25 | 28 20 | 15 11 | ♀ Δ ♂ | | | | | ♂ | | |
| 16 | 21 28 | 14 19 | 28 41 | 29 35 | 17 1 | ☉ * ♀ | | | | | | | |
| 17 | 21 28 | 14 30 | 28 56 | 0 50 | 18 52 | | | | | | | | |
| 18 | 21 27 | 14 42 | 29 11 | 2 5 | 20 44 | ♀ Δ h | | | | | | | |
| 19 | 21 27 | 14 54 | 29 25 | 3 19 | 22 37 | | | | | | | | * |
| 20 | 21 26 | 15 6 | 29 39 | 4 34 | 24 32 | ☉ Δ ♂ | π | | | | | * | |
| 21 | 21 26 | 15 18 | 29 52 | 5 48 | 26 28 | ♀ * ♀ | | | | | | | |
| 22 | 21 26 | 15 30 | 0 4 | 7 3 | 28 25 | | | □ | | | | □ | □ |
| 23 | 21 25 | 15 42 | 0 16 | 8 18 | 0 23 | ♀ Δ ♂ | | | ♂ | * | | □ | □ |
| 24 | 21 25 | 15 54 | 0 28 | 9 33 | 2 23 | | | Δ | * | | | Δ | Δ |
| 25 | 21 25 | 16 6 | 0 39 | 10 48 | 4 23 | ☉ ♂ ♀ | | | | | □ | Δ | |
| 26 | 21 25 | 16 19 | 0 49 | 12 2 | 6 24 | | | | □ | | | □ | |
| 27 | 21 D 26 | 16 31 | 0 59 | 13 16 | 8 26 | | | | | | Δ | | |
| 28 | 21 26 | 16 44 | 1 8 | 14 31 | 10 29 | ♀ Δ ♀ | | | Δ | * | | * | |
| 29 | 21 27 | 16 56 | 1 17 | 15 45 | 12 32 | | | ♂ | | | | | ♂ |
| 30 | 21 28 | 17 9 | 1 25 | 17 0 | 14 35 | ♀ □ ♂ | | | | □ | | ♂ | |
| 31 | 21 29 | 17 22 | 1 33 | 18 14 | 16 39 | ♀ □ ♂ | | | | | | | |

| 8 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1858. | |
|-----------------|-------------------|-----------------------------------|-----------|---------|------------|--------------|------------|-----------|--------------|------------|---------|--------|---------|
| APRIL XXX DAYS. | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° |
| 1 | 16 | 2 | 0 S 11 | 19 N 15 | 0 N 15 | 21 N 58 | 0 S 47 | 16 N 30 | | | | | |
| 4 | 16 | 1 | 0 11 | 19 17 | 0 15 | 21 58 | 0 47 | 16 31 | | | | | |
| 7 | 16 | 0 | 0 11 | 19 19 | 0 15 | 21 58 | 0 47 | 16 42 | | | | | |
| 10 | 15 | 59 | 0 11 | 19 21 | 0 15 | 21 57 | 0 46 | 16 53 | | | | | |
| 13 | 15 | 58 | 0 11 | 19 23 | 0 16 | 21 56 | 0 46 | 17 4 | | | | | |
| 16 | 15 | 58 | 0 11 | 19 25 | 0 16 | 21 55 | 0 46 | 17 15 | | | | | |
| 19 | 15 | 57 | 0 11 | 19 27 | 0 16 | 21 54 | 0 45 | 17 26 | | | | | |
| 22 | 15 | 56 | 0 11 | 19 30 | 0 16 | 21 53 | 0 45 | 17 37 | | | | | |
| 25 | 15 | 55 | 0 11 | 19 32 | 0 16 | 21 51 | 0 45 | 17 48 | | | | | |
| 28 | 15 | 55 | 0 11 | 19 34 | 0 16 | 21 50 | 0 44 | 17 59 | | | | | |
| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. | | | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | " | ° |
| 1 | Th | 0 | 38 | 13 | 11 r 28 | 9 | | 4 N 32 | 15 m 50 | 4 S 27 | 20 S 50 | | 26 r 41 |
| 2 | F | 0 | 42 | 9 | 12 27 | 14 | | 4 56 | 27 55 | 4 55 | 24 30 | | 26 43 |
| 3 | S | 0 | 46 | 6 | 13 26 | 18 | | 5 19 | 9 f 53 | 5 10 | 27 4 | | 26 46 |
| 4 | S | 0 | 50 | 3 | 14 25 | 20 | | 5 41 | 21 46 | 5 12 | 28 24 | | 26 49 |
| 5 | M | 0 | 53 | 59 | 15 24 | 20 | | 6 4 | 3 w 39 | 5 1 | 28 25 | | 26 52 |
| 6 | Tu | 0 | 57 | 56 | 16 23 | 18 | | 6 27 | 15 36 | 4 36 | 27 7 | | 26 55 |
| 7 | W | 1 | 1 | 52 | 17 22 | 15 | | 6 50 | 27 41 | 3 59 | 24 33 | | 26 56 |
| 8 | Th | 1 | 5 | 49 | 18 21 | 10 | | 7 12 | 10 m 0 | 3 11 | 20 49 | | 27 0 |
| 9 | F | 1 | 9 | 45 | 19 20 | 4 | | 7 34 | 22 37 | 2 12 | 16 4 | | 27 3 |
| 10 | S | 1 | 13 | 42 | 20 18 | 55 | | 7 57 | 5 x 35 | 1 5 | 10 28 | | 27 6 |
| 11 | S | 1 | 17 | 38 | 21 17 | 45 | | 8 19 | 18 58 | 0 N 8 | 4 15 | | 27 9 |
| 12 | M | 1 | 21 | 35 | 22 16 | 33 | | 8 41 | 2 r 46 | 1 22 | 2 N 21 | | 27 12 |
| 13 | Tu | 1 | 28 | 32 | 23 15 | 18 | | 9 3 | 16 57 | 2 33 | 9 1 | | 27 15 |
| 14 | W | 1 | 29 | 28 | 24 14 | 2 | | 9 24 | 1 r 27 | 3 36 | 15 22 | | 27 19 |
| 15 | Th | 1 | 33 | 25 | 25 12 | 44 | | 9 46 | 16 10 | 4 26 | 20 56 | | 27 22 |
| 16 | F | 1 | 37 | 21 | 26 11 | 24 | | 10 7 | 0 n 59 | 4 57 | 25 13 | | 27 25 |
| 17 | S | 1 | 41 | 18 | 27 10 | 2 | | 10 28 | 15 45 | 5 9 | 27 50 | | 27 28 |
| 18 | S | 1 | 45 | 14 | 28 8 | 37 | | 10 49 | 0 s 21 | 5 1 | 28 29 | | 27 31 |
| 19 | M | 1 | 49 | 11 | 29 7 | 11 | | 11 10 | 14 43 | 4 34 | 27 11 | | 27 34 |
| 20 | Tu | 1 | 53 | 7 | 0 r 5 | 42 | | 11 31 | 28 47 | 3 51 | 24 11 | | 27 38 |
| 21 | W | 1 | 57 | 4 | 1 4 | 11 | | 11 51 | 12 Ω 33 | 2 55 | 19 51 | | 27 41 |
| 22 | Th | 2 | 1 | 1 | 2 2 | 38 | | 12 12 | 26 1 | 1 51 | 14 36 | | 27 44 |
| 23 | F | 2 | 4 | 57 | 3 1 | 3 | | 12 32 | 9 m 12 | 0 42 | 8 46 | | 27 47 |
| 24 | S | 2 | 8 | 54 | 3 59 | 25 | | 12 52 | 22 10 | 0 S 28 | 2 41 | | 27 50 |
| 25 | S | 2 | 12 | 50 | 4 57 | 46 | | 13 11 | 4 Δ 55 | 1 35 | 3 S 24 | | 27 53 |
| 26 | M | 2 | 16 | 47 | 5 56 | 4 | | 13 31 | 17 28 | 2 37 | 9 16 | | 27 56 |
| 27 | Tu | 2 | 20 | 43 | 6 54 | 21 | | 13 50 | 29 52 | 3 30 | 14 42 | | 21 59 |
| 28 | W | 2 | 24 | 40 | 7 52 | 36 | | 14 9 | 12 m 7 | 4 12 | 19 29 | | 28 3 |
| 29 | Th | 2 | 28 | 36 | 8 50 | 49 | | 14 28 | 24 15 | 4 43 | 23 25 | | 28 6 |
| 30 | F | 2 | 32 | 33 | 9 49 | 0 | | 14 46 | 6 f 15 | 5 0 | 26 18 | | 28 9 |

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".



MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | |
|--------|-------|---------|--------|---------|----------|---------|-----------------|----|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | |
| | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 0 N 4 | 19 8 59 | 0 N 6 | 19 N 28 | 2 N 9 | 21 N 12 | 15 | 5 |
| 4 | 0 S 4 | 19 56 | 0 13 | 20 25 | 1 32 | 20 32 | 14 | 56 |
| 7 | 0 13 | 19 53 | 0 21 | 21 16 | 0 53 | 19 33 | 14 | 46 |
| 10 | 0 21 | 19 48 | 0 28 | 22 3 | 0 S 2 | 18 31 | 14 | 37 |
| 13 | 0 29 | 19 42 | 0 36 | 22 43 | 0 51 | 17 2 | 14 | 27 |
| 16 | 0 38 | 19 36 | 0 43 | 23 18 | 1 38 | 16 46 | 14 | 18 |
| 19 | 0 48 | 19 29 | 0 50 | 23 47 | 2 26 | 14 41 | 14 | 8 |
| 22 | 0 57 | 19 21 | 0 57 | 24 10 | 3 56 | 13 52 | 13 | 59 |
| 25 | 1 6 | 19 14 | 1 4 | 24 27 | 3 28 | 13 23 | 13 | 49 |
| 28 | 1 14 | 19 6 | 1 10 | 24 37 | 3 34 | 13 16 | 13 | 40 |
| 31 | 1 23 | 18 59 | 1 17 | 24 41 | 3 43 | 13 28 | 13 | 30 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-------|-------|-------|-------|---------|------------------|----------------|---|---|---|---|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♄ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | | |
| 1 | 22 46 | 24 19 | 29 31 | 26 29 | 25 16 | | | | | | | |
| 2 | 22 50 | 24 33 | 29 15 | 27 43 | 25 12 | | | | | | | |
| 3 | 22 55 | 24 47 | 28 58 | 28 56 | 25 8 | ♀ ♂ ♂ | Δ | | | | | |
| 4 | 22 59 | 25 1 | 28 41 | 0 10 | 24 49 | ♂ ♂ ♄ | | Δ | ♂ | Δ | * | Δ |
| 5 | 23 3 | 25 15 | 28 24 | 1 23 | 24 29 | ♂ ♂ ♄ | | | | | | Δ |
| 6 | 23 7 | 25 29 | 28 7 | 2 37 | 24 6 | | □ | | | | | □ |
| 7 | 23 12 | 25 43 | 27 49 | 3 50 | 23 40 | | | ■ | | ■ | ■ | □ |
| 8 | 23 16 | 25 57 | 27 30 | 5 4 | 23 11 | ♂ * ♈ | * | | | | | |
| 9 | 23 21 | 26 11 | 27 10 | 6 17 | 23 39 | | | * | Δ | * | Δ | * |
| 10 | 23 25 | 26 25 | 26 51 | 7 31 | 22 6 | ♂ ♂ ♄ | | | | | | * |
| 11 | 23 30 | 26 39 | 26 31 | 8 44 | 21 31 | | | | □ | | | |
| 12 | 23 35 | 26 53 | 26 11 | 9 58 | 20 56 | ♂ ♂ ☉ | | | | | | |
| 13 | 23 40 | 27 8 | 25 50 | 11 11 | 20 20 | | ♂ | ♂ | * | ♂ | ♂ | ♂ |
| 14 | 23 45 | 27 22 | 25 29 | 12 25 | 19 45 | ♈ * ☉ | | | | | | ♂ |
| 15 | 23 50 | 27 36 | 25 8 | 13 38 | 19 12 | | | | | | | |
| 16 | 23 55 | 27 50 | 24 48 | 14 52 | 18 40 | ☉ ♂ ♂ | | | | | | |
| 17 | 24 0 | 28 4 | 25 25 | 16 5 | 18 8 | | * | * | | | | * |
| 18 | 24 6 | 28 18 | 24 4 | 17 18 | 17 41 | ♂ Δ ♈ | | | | | | |
| 19 | 24 11 | 28 33 | 23 43 | 18 31 | 17 17 | ☉ ♂ ♄ | □ | ☾ | | | * | □ |
| 20 | 24 17 | 28 47 | 23 22 | 19 44 | 16 56 | ☉ ♂ ♄ | | | | | | |
| 21 | 24 22 | 29 1 | 23 0 | 20 57 | 16 39 | | | | | | | ☾ Δ |
| 22 | 24 28 | 29 15 | 22 39 | 22 10 | 16 26 | | Δ | ☾ | | | | |
| 23 | 24 33 | 29 29 | 22 18 | 23 23 | 16 18 | | | | | | | |
| 24 | 24 39 | 29 43 | 22 17 | 24 36 | 16 14 | * ♂ ♄ | | | | | Δ | |
| 25 | 24 45 | 29 57 | 22 37 | 25 49 | 16 13 | | | | | | | |
| 26 | 24 51 | 0 11 | 22 17 | 27 2 | 16 D 18 | | | | | | | ♂ |
| 27 | 24 57 | 0 25 | 22 57 | 28 15 | 16 27 | | ♂ | ♄ | | | | |
| 28 | 25 3 | 0 39 | 22 37 | 29 29 | 16 41 | ☉ ♀ ♈ | | | | | | |
| 29 | 25 9 | 0 53 | 22 18 | 0 42 | 16 59 | | | | | | | ♂ |
| 30 | 25 15 | 1 7 | 22 0 | 1 55 | 17 22 | | | | | | | |
| 31 | 25 21 | 1 21 | 22 43 | 3 8 | 17 49 | | | | | | | Δ |

JUNE XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 8 10 | 20 N 0 | 0 N 18 | 21 N 22 | 0 8 41 | 19 N 49 |
| 4 | 15 | 48 | 0 10 | 20 2 | 0 18 | 21 18 | 0 41 | 19 58 |
| 7 | 15 | 47 | 0 10 | 20 4 | 0 19 | 21 15 | 0 41 | 20 6 |
| 10 | 15 | 47 | 0 10 | 20 7 | 0 19 | 21 11 | 0 41 | 20 14 |
| 18 | 15 | 47 | 0 10 | 20 9 | 0 19 | 21 8 | 0 41 | 20 22 |
| 16 | 15 | 46 | 0 10 | 20 11 | 0 19 | 21 4 | 0 41 | 20 30 |
| 19 | 15 | 46 | 0 10 | 20 13 | 0 19 | 21 0 | 0 40 | 20 37 |
| 22 | 15 | 46 | 0 10 | 20 15 | 0 20 | 20 56 | 0 40 | 20 44 |
| 25 | 15 | 46 | 0 10 | 20 17 | 0 20 | 20 52 | 0 40 | 20 51 |
| 28 | 15 | 46 | 0 10 | 20 19 | 0 20 | 20 48 | 0 40 | 20 57 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|-------------|-------------|-------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 4 38 43 | 10 11 38 23 | 22 N 4 | 2 34 34 | 3 S 16 | 22 S 47 | 0 11 |
| 2 | W | 4 42 39 | 11 35 49 | 22 12 14 38 | 2 24 18 45 | | | 0 4 |
| 3 | Th | 4 46 36 | 12 33 15 | 22 19 26 54 | 1 24 13 53 | | | 0 8 |
| 4 | F | 4 50 32 | 13 30 40 | 22 26 9 25 | 0 19 8 21 | | | 0 11 |
| 5 | S | 4 54 29 | 14 28 5 | 22 33 22 16 | 0 N 49 2 19 | | | 0 14 |
| 6 | S | 4 58 26 | 15 25 29 | 22 40 5 33 | 1 56 3 N 59 | | | 0 18 |
| 7 | M | 5 2 22 | 16 22 52 | 22 46 19 17 | 2 59 10 19 | | | 0 22 |
| 8 | Tu | 5 6 19 | 17 20 15 | 22 51 3 31 | 3 53 16 21 | | | 0 25 |
| 9 | W | 5 10 15 | 18 17 37 | 22 57 18 13 | 4 34 21 39 | | | 0 29 |
| 10 | Th | 5 14 12 | 19 14 59 | 23 1 3 16 | 4 57 25 41 | | | 0 32 |
| 11 | F | 5 18 8 | 20 12 20 | 23 6 18 33 | 4 59 27 56 | | | 0 35 |
| 12 | S | 5 22 5 | 21 9 40 | 23 10 3 51 | 4 40 28 4 | | | 0 39 |
| 13 | S | 5 26 1 | 22 7 0 | 23 14 19 1 | 4 1 26 5 | | | 0 42 |
| 14 | M | 5 29 58 | 23 4 19 | 23 17 3 51 | 3 7 22 20 | | | 0 45 |
| 15 | Tu | 5 33 55 | 24 1 37 | 23 20 18 16 | 2 2 17 18 | | | 0 49 |
| 16 | W | 5 37 51 | 24 58 54 | 23 22 2 13 | 0 51 11 29 | | | 0 52 |
| 17 | Th | 5 41 48 | 25 56 11 | 23 24 15 42 | 0 S 20 5 20 | | | 0 56 |
| 18 | F | 5 45 44 | 26 53 27 | 23 25 28 46 | 1 28 0 S 51 | | | 0 59 |
| 19 | S | 5 49 41 | 27 50 42 | 23 27 11 29 | 2 30 6 50 | | | 1 2 |
| 20 | S | 5 53 37 | 28 47 56 | 23 27 23 54 | 3 23 12 25 | | | 1 5 |
| 21 | M | 5 57 34 | 29 45 10 | 23 28 6 7 | 4 6 17 26 | | | 1 9 |
| 22 | Tu | 6 1 31 | 0 42 23 | 23 27 18 10 | 4 37 21 41 | | | 1 12 |
| 23 | W | 6 5 27 | 1 39 36 | 23 27 0 8 | 4 56 25 0 | | | 1 15 |
| 24 | Th | 6 9 24 | 2 36 48 | 23 26 12 2 | 5 1 27 14 | | | 1 18 |
| 25 | F | 6 13 20 | 3 33 59 | 23 25 23 54 | 4 54 28 13 | | | 1 21 |
| 26 | S | 6 17 17 | 4 31 11 | 23 23 5 47 | 4 34 27 54 | | | 1 24 |
| 27 | S | 6 21 13 | 5 28 22 | 23 21 17 41 | 4 2 26 17 | | | 1 27 |
| 28 | M | 6 25 10 | 6 25 33 | 23 18 29 39 | 3 19 23 29 | | | 1 30 |
| 29 | Tu | 6 29 6 | 7 22 44 | 23 15 11 42 | 2 27 19 38 | | | 1 33 |
| 30 | W | 6 33 3 | 8 19 55 | 23 12 23 52 | 1 27 14 57 | | | 1 35 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 S 25 | 18 S 57 | 1 N 19 | 24 N 41 | 3 S 48 | 13 N 36 | 13 × 26 |
| 4 | 1 32 | 18 51 | 1 23 | 24 36 | 3 41 | 14 12 | 13 17 |
| 7 | 1 39 | 18 45 | 1 28 | 24 24 | 3 34 | 15 2 | 13 7 |
| 10 | 1 46 | 18 41 | 1 32 | 24 7 | 3 12 | 16 4 | 12 58 |
| 13 | 1 52 | 18 39 | 1 37 | 23 43 | 2 52 | 17 15 | 12 48 |
| 16 | 1 58 | 18 38 | 1 39 | 23 13 | 2 22 | 18 31 | 12 39 |
| 19 | 2 3 | 18 38 | 1 42 | 22 37 | 1 52 | 19 49 | 12 29 |
| 22 | 2 8 | 18 41 | 1 44 | 21 55 | 1 18 | 21 6 | 12 20 |
| 25 | 2 12 | 18 45 | 1 45 | 21 8 | 0 42 | 22 15 | 12 10 |
| 28 | 2 17 | 18 51 | 1 45 | 20 16 | 0 9 | 23 12 | 12 1 |

| D
M | h | ♄ | ♅ | ♆ | ♇ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|-------|--------|-------|-------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| 1 | 25 28 | 1 35 | 19 24 | 4 21 | 18 20 | ♀ ☐ ♂ | | Δ | | Δ | | | |
| 2 | 25 34 | 1 49 | 19 7 | 5 33 | 18 55 | ♀ ♂ ♂ | Δ | | | | ☐ | | ☐ |
| 3 | 25 40 | 2 9 | 18 51 | 6 46 | 19 34 | | | ☐ | | ☐ | | | |
| 4 | 25 47 | 2 17 | 18 35 | 7 58 | 20 17 | | ☐ | | | | | Δ | |
| 5 | 25 53 | 2 31 | 18 20 | 9 11 | 21 4 | | | | Δ | | Δ | | * |
| 6 | 25 59 | 2 45 | 18 6 | 10 24 | 21 55 | | | * | | ☐ | | ☐ | |
| 7 | 26 6 | 2 59 | 17 52 | 11 37 | 22 40 | | ☐ | | ☐ | | | | |
| 8 | 26 13 | 3 13 | 17 39 | 12 49 | 23 48 | | | | | | | ♊ | ♌ |
| 9 | 26 19 | 3 27 | 17 27 | 14 2 | 24 49 | | | ♌ | * | ♌ | | ♊ | ♌ |
| 10 | 26 26 | 3 41 | 17 16 | 15 14 | 25 54 | | | ♌ | * | ♌ | | | |
| 11 | 26 33 | 3 55 | 17 6 | 16 27 | 27 3 | ♀ * h ☉ | | | | | | | |
| 12 | 26 39 | 4 9 | 16 55 | 17 39 | 28 14 | ♀ Δ ♂ | | | | | | | |
| 13 | 26 46 | 4 22 | 16 46 | 18 52 | 29 29 | | | | ♌ | | Δ | ♌ | |
| 14 | 26 53 | 4 36 | 16 38 | 20 4 | 0 47 | ♀ ☉ ☿ | * | * | | * | | ☐ | * |
| 15 | 27 0 | 4 50 | 16 31 | 21 17 | 2 9 | | * | | | | | ☐ | |
| 16 | 27 7 | 5 3 | 16 24 | 22 29 | 3 34 | | | ☐ | | ☐ | | | ☐ |
| 17 | 27 14 | 5 17 | 16 18 | 23 42 | 5 2 | ♀ ☉ ♄ | | | | | ☐ | | |
| 18 | 27 21 | 5 31 | 16 13 | 24 54 | 6 33 | | ☐ | Δ | * | | | * | |
| 19 | 27 28 | 5 44 | 16 9 | 26 0 | 8 7 | | | | | Δ | | | Δ |
| 20 | 27 35 | 5 58 | 16 6 | 27 18 | 9 44 | ♀ ☉ h | Δ | | ☐ | | | ☐ | |
| 21 | 27 42 | 6 11 | 16 3 | 28 31 | 11 24 | | | | | | | | |
| 22 | 27 50 | 6 24 | 16 2 | 29 43 | 13 7 | ☉ ☐ ♂ | | | | | | | |
| 23 | 27 57 | 6 38 | 16 1 | 0 55 | 14 53 | ♀ * ☿ | | ♊ | | | | Δ | |
| 24 | 28 4 | 6 51 | 16 1 | 2 7 | 16 41 | | | | | | | | ♊ |
| 25 | 28 11 | 7 4 | 16 D 2 | 3 19 | 18 33 | ♀ ☐ ♀ | | | | | | | |
| 26 | 28 19 | 7 18 | 16 3 | 4 31 | 20 27 | | ♊ | | | | | | |
| 27 | 28 26 | 7 31 | 16 6 | 5 43 | 22 24 | | | | | | * | | |
| 28 | 28 33 | 7 44 | 16 9 | 6 55 | 24 25 | | | Δ | ♊ | | | | |
| 29 | 28 40 | 7 57 | 16 13 | 8 7 | 26 26 | ♀ * ♄ | | | | Δ | ☐ | ♊ | |
| 30 | 28 48 | 8 10 | 16 18 | 9 19 | 28 29 | | | | | | | | Δ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | | | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 S 10 | 20 N 20 | 0 N 20 | 20 N 43 | 0 S 39 | 21 N 4 |
| 4 | 15 | 45 | 0 10 | 20 22 | 0 20 | 20 39 | 0 39 | 21 10 |
| 7 | 15 | 45 | 0 10 | 20 24 | 0 21 | 20 34 | 0 39 | 21 16 |
| 10 | 15 | 45 | 0 10 | 20 25 | 0 21 | 20 30 | 0 39 | 21 21 |
| 13 | 15 | 45 | 0 10 | 20 27 | 0 21 | 20 25 | 0 39 | 21 27 |
| 16 | 15 | 46 | 0 10 | 20 29 | 0 22 | 20 20 | 0 39 | 21 32 |
| 19 | 15 | 46 | 0 10 | 20 30 | 0 22 | 20 15 | 0 39 | 21 37 |
| 22 | 15 | 46 | 0 10 | 20 31 | 0 22 | 20 11 | 0 39 | 21 41 |
| 25 | 15 | 46 | 0 10 | 20 33 | 0 23 | 20 6 | 0 38 | 21 46 |
| 28 | 15 | 47 | 0 10 | 20 34 | 0 23 | 20 1 | 0 38 | 21 50 |
| 31 | 15 | 47 | 0 10 | 20 35 | 0 23 | 19 56 | 0 38 | 21 54 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin. | ♂
Long. |
|--------|--------|-------------------|-------------|-------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | Th | 6 37 0 | 9♄17 | 7 23 N 8 | 6♋12 | 0 S 22 | 9 S 35 | 1♊39 |
| 2 | F | 6 40 56 | 10 14 18 23 | 4 18 47 | 0 N 45 | 3 45 | 1 42 | |
| 3 | S | 6 44 53 | 11 11 30 22 | 59 1 39 | 1 51 | 2 N 21 | 1 43 | |
| 4 | ♄ | 6 48 49 | 12 8 42 22 | 54 14 53 | 2 54 | 8 32 | 1 48 | |
| 5 | M | 6 52 46 | 13 5 54 22 | 49 28 31 | 3 48 | 14 30 | 1 51 | |
| 6 | Tu | 6 56 42 | 14 8 7 22 | 43 12 35 | 4 31 | 19 56 | 1 54 | |
| 7 | W | 7 0 39 | 15 0 20 22 | 37 27 6 | 4 58 | 24 21 | 1 56 | |
| 8 | Th | 7 4 35 | 15 57 34 22 | 30 11 58 | 5 6 | 27 17 | 1 59 | |
| 9 | F | 7 8 32 | 16 54 48 22 | 23 27 5 | 4 52 | 28 18 | 2 1 | |
| 10 | S | 7 12 29 | 17 52 2 22 | 16 12 18 | 4 19 | 27 11 | 2 4 | |
| 11 | ♄ | 7 16 25 | 18 49 16 22 | 8 27 25 | 3 27 | 24 4 | 2 7 | |
| 12 | M | 7 20 22 | 19 46 31 22 | 0 12 18 | 2 22 | 19 23 | 2 9 | |
| 13 | Tu | 7 24 18 | 20 43 46 21 | 52 26 48 | 1 8 | 13 40 | 2 12 | |
| 14 | W | 7 28 15 | 21 41 1 21 | 43 10 52 | 0 S 7 | 7 24 | 2 14 | |
| 15 | Th | 7 32 11 | 22 38 17 21 | 33 24 28 | 1 19 | 0 59 | 2 17 | |
| 16 | F | 7 36 8 | 23 35 32 21 | 24 7 37 | 2 25 | 5 S 15 | 2 19 | |
| 17 | S | 7 40 4 | 24 32 48 21 | 14 20 23 | 3 22 | 11 5 | 2 22 | |
| 18 | ♄ | 7 44 1 | 25 30 4 21 | 4 2 49 | 4 8 | 16 20 | 2 24 | |
| 19 | M | 7 47 58 | 26 27 20 20 | 53 15 1 | 4 41 | 20 50 | 2 27 | |
| 20 | Tu | 7 51 54 | 27 24 36 20 | 42 27 2 | 5 2 | 24 24 | 2 29 | |
| 21 | W | 7 55 51 | 28 21 52 20 | 30 8 57 | 5 9 | 26 54 | 2 32 | |
| 22 | Th | 7 59 47 | 29 19 9 20 | 19 20 49 | 5 3 | 28 11 | 2 34 | |
| 23 | F | 8 3 44 | 0♊16 27 20 | 7 2 42 | 4 44 | 28 10 | 2 36 | |
| 24 | S | 8 7 40 | 1 13 45 19 | 54 14 37 | 4 12 | 26 50 | 2 38 | |
| 25 | ♄ | 8 11 37 | 2 11 3 19 | 41 26 36 | 3 29 | 24 17 | 2 40 | |
| 26 | M | 8 15 33 | 3 8 23 19 | 28 8 41 | 2 37 | 20 37 | 2 42 | |
| 27 | Tu | 8 19 30 | 4 5 43 19 | 15 20 55 | 1 36 | 16 3 | 2 44 | |
| 28 | W | 8 23 27 | 5 3 3 19 | 1 3 18 | 0 30 | 10 47 | 2 46 | |
| 29 | Th | 8 27 23 | 6 0 25 18 | 47 15 51 | 0 N 38 | 5 0 | 2 48 | |
| 30 | F | 8 31 20 | 6 57 48 18 | 33 28 37 | 1 46 | 1 N 4 | 2 50 | |
| 31 | S | 8 35 16 | 7 55 12 18 | 18 11 39 | 2 50 | 7 13 | 2 52 | |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 2 S 19 | 18 S 58 | 1 N 45 | 19 N 18 | 0 N 26 | 23 N 52 | 11 × 51 |
| 4 | 2 22 | 19 7 | 1 45 | 18 17 | 0 54 | 24 11 | 11 41 |
| 7 | 2 25 | 19 18 | 1 44 | 17 11 | 1 18 | 24 4 | 11 32 |
| 10 | 2 28 | 19 30 | 1 41 | 16 1 | 1 34 | 23 33 | 11 22 |
| 13 | 2 30 | 19 43 | 1 37 | 14 47 | 1 46 | 22 39 | 11 13 |
| 16 | 2 32 | 19 58 | 1 33 | 13 31 | 1 46 | 21 25 | 11 3 |
| 19 | 2 33 | 20 14 | 1 29 | 12 11 | 1 47 | 19 56 | 10 54 |
| 22 | 2 33 | 20 36 | 1 24 | 10 48 | 1 36 | 18 15 | 10 44 |
| 25 | 2 34 | 20 47 | 1 18 | 9 24 | 1 27 | 16 26 | 10 34 |
| 28 | 2 35 | 21 5 | 1 11 | 7 58 | 1 6 | 14 31 | 10 25 |
| 31 | 2 36 | 21 24 | 1 8 | 6 29 | 0 46 | 12 32 | 10 15 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | | |
| 1 | 28 56 | 8 23 | 16 24 | 10 31 | 0 34 | ♄ ☐ ♈ | Δ | ☐ | | ☐ | | Δ | |
| 2 | 29 3 | 8 36 | 16 30 | 11 43 | 2 41 | | | * | Δ | | | | ☐ |
| 3 | 29 11 | 8 49 | 16 37 | 12 54 | 4 50 | | ☐ | * | Δ | * | | Δ | |
| 4 | 29 18 | 9 2 | 16 45 | 14 6 | 6 59 | | | | | * | | | |
| 5 | 29 26 | 9 15 | 16 54 | 15 18 | 9 8 | | | | ☐ | | | | |
| 6 | 29 33 | 9 28 | 17 4 | 16 29 | 11 18 | | * | ♄ | * | | ♄ | ☐ | * |
| 7 | 29 41 | 9 41 | 17 14 | 17 41 | 13 28 | | | ♄ | * | | ♄ | | * |
| 8 | 29 49 | 9 53 | 17 25 | 18 53 | 15 37 | ☉ ☌ ♄ | | | | ♄ | | * | |
| 9 | 29 56 | 10 6 | 17 36 | 20 4 | 17 47 | ♄ ☌ ☿ | | | | | | | |
| 0 | 0 4 | 10 18 | 17 48 | 21 15 | 19 56 | ☉ Δ ♈ | ♄ | | | | | | |
| 1 | 0 11 | 10 31 | 18 1 | 22 26 | 22 3 | ☉ ☌ ☿ | | * | ♄ | | Δ | | ♄ |
| 2 | 0 19 | 10 43 | 18 15 | 23 38 | 24 10 | | | * | | * | Δ | | |
| 3 | 0 27 | 10 55 | 18 29 | 24 49 | 26 15 | ♄ ☌ ♄ | | ☐ | | | ☐ | ♄ | |
| 4 | 0 34 | 11 7 | 18 44 | 26 0 | 28 19 | | | | | ☐ | | | |
| 5 | 0 42 | 11 20 | 18 59 | 27 11 | 0 22 | ♄ ☌ ♄ | * | | * | | * | | |
| 6 | 0 49 | 11 32 | 19 15 | 28 22 | 2 23 | ♄ * ☿ | | Δ | | Δ | | | * |
| 7 | 0 57 | 11 44 | 19 32 | 29 33 | 4 22 | | ☐ | | | | | | |
| 8 | 1 5 | 11 56 | 19 49 | 0 44 | 6 20 | | | | ☐ | | | * | ☐ |
| 9 | 1 13 | 12 8 | 20 7 | 1 55 | 8 16 | ♀ ☐ ☿ | | | | | ♄ | | |
| 0 | 1 20 | 12 20 | 20 25 | 3 6 | 10 10 | ☉ ☌ ♄ | Δ | ♄ | Δ | | | | |
| 1 | 1 28 | 12 32 | 20 44 | 4 17 | 12 3 | ♄ * ♄ | | | | ♄ | | ☐ | Δ |
| 2 | 1 36 | 12 44 | 21 3 | 5 28 | 13 53 | | | | | | | | |
| 3 | 1 44 | 12 55 | 21 23 | 6 39 | 15 42 | | | | | | | Δ | |
| 4 | 1 52 | 13 7 | 21 44 | 7 50 | 17 30 | | | | | | | | |
| 5 | 2 0 | 13 18 | 22 5 | 9 1 | 19 15 | ☉ ☌ ♄ | | | ♄ | | * | | |
| 6 | 2 7 | 13 29 | 22 27 | 10 11 | 22 59 | ☉ * ☿ | ♄ | Δ | | Δ | | | |
| 7 | 2 15 | 13 40 | 22 49 | 11 21 | 22 41 | ♄ ☐ ♈ | | | | | ☐ | | ♄ |
| 8 | 2 23 | 13 51 | 23 11 | 12 31 | 24 21 | | | ☐ | | | | | |
| 9 | 2 30 | 14 2 | 23 34 | 13 41 | 26 0 | ♀ ☐ ♄ | | | | ☐ | | ♄ | |
| 0 | 2 38 | 14 13 | 23 58 | 14 51 | 27 37 | | | * | Δ | | Δ | | |
| 1 | 2 46 | 14 24 | 24 22 | 16 1 | 29 12 | | Δ | | | * | | | |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 10 | 20 N 35 | 0 N 23 | 19 N 54 | 0 S 38 | 21 N 55 |
| 4 | 15 | 48 | 0 10 | 20 36 | 0 23 | 19 49 | 0 38 | 21 53 |
| 7 | 15 | 49 | 0 10 | 20 37 | 0 24 | 19 44 | 0 39 | 22 51 |
| 10 | 15 | 49 | 0 10 | 20 38 | 0 24 | 19 39 | 0 39 | 22 50 |
| 13 | 15 | 50 | 0 10 | 20 39 | 0 24 | 19 33 | 0 39 | 22 48 |
| 16 | 15 | 50 | 0 10 | 20 40 | 0 25 | 19 28 | 0 39 | 22 46 |
| 19 | 15 | 51 | 0 10 | 20 40 | 0 25 | 19 23 | 0 39 | 22 44 |
| 22 | 15 | 51 | 0 10 | 20 41 | 0 25 | 19 18 | 0 39 | 22 42 |
| 25 | 15 | 52 | 0 10 | 20 41 | 0 26 | 19 13 | 0 39 | 22 40 |
| 28 | 15 | 53 | 0 10 | 20 42 | 0 26 | 19 8 | 0 39 | 22 38 |
| 31 | 15 | 53 | 0 10 | 20 42 | 0 26 | 19 3 | 0 39 | 22 36 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 8 39 13 | 8 Ω 52 37 | 18 N 3 | 24 r 57 | 3 N 46 | 18 N 10 | 20 54 |
| 2 | M | 8 43 9 | 9 50 4 | 17 48 | 8 s 35 | 4 31 | 18 38 | 2 56 |
| 3 | Tu | 8 47 6 | 10 47 31 | 17 33 | 22 32 | 5 12 | 18 16 | 2 55 |
| 4 | W | 8 51 3 | 11 45 0 | 17 17 | 6 π 49 | 5 13 | 26 37 | 3 0 |
| 5 | Th | 8 54 59 | 12 42 30 | 17 1 | 21 24 | 5 6 | 28 16 | 3 0 |
| 6 | F | 8 58 56 | 13 40 2 | 16 44 | 6 ∞ 10 | 4 39 | 27 57 | 3 4 |
| 7 | S | 9 2 52 | 14 37 35 | 16 28 | 21 3 | 3 52 | 25 38 | 3 5 |
| 8 | S | 9 6 49 | 15 35 8 | 16 11 | 5 Ω 54 | 2 50 | 21 34 | 3 5 |
| 9 | M | 9 10 45 | 16 32 44 | 15 53 | 20 35 | 1 38 | 16 11 | 3 5 |
| 10 | Tu | 9 14 42 | 17 30 20 | 15 36 | 4 m 59 | 0 20 | 10 0 | 3 10 |
| 11 | W | 9 18 38 | 18 27 57 | 15 18 | 19 1 | 0 S 57 | 3 29 | 3 11 |
| 12 | Th | 9 22 35 | 19 25 36 | 15 0 | 2 ∞ 38 | 2 8 | 3 S 1 | 3 13 |
| 13 | F | 9 26 32 | 20 23 15 | 14 42 | 15 51 | 3 11 | 9 11 | 3 14 |
| 14 | S | 9 30 28 | 21 20 56 | 14 24 | 28 41 | 4 2 | 14 47 | 3 15 |
| 15 | S | 9 34 25 | 22 18 37 | 14 5 | 11 m 11 | 4 40 | 19 38 | 3 17 |
| 16 | M | 9 38 21 | 23 16 20 | 13 46 | 23 24 | 5 5 | 23 33 | 3 19 |
| 17 | Tu | 9 42 18 | 24 14 4 | 13 27 | 5 f 27 | 5 15 | 26 24 | 3 19 |
| 18 | W | 9 46 14 | 25 11 48 | 13 8 | 17 22 | 5 12 | 28 2 | 3 21 |
| 19 | Th | 9 50 11 | 26 9 34 | 12 49 | 29 14 | 4 56 | 28 23 | 3 22 |
| 20 | F | 9 54 7 | 27 7 21 | 12 29 | 11 v 8 | 4 27 | 27 25 | 3 23 |
| 21 | S | 9 58 4 | 28 5 10 | 12 9 | 23 6 | 3 46 | 25 11 | 3 24 |
| 22 | S | 10 2 1 | 29 2 59 | 11 49 | 5 m 12 | 2 55 | 21 48 | 3 25 |
| 23 | M | 10 5 57 | 0 m 0 50 | 11 29 | 17 28 | 1 54 | 17 26 | 3 26 |
| 24 | Tu | 10 9 54 | 0 58 43 | 11 8 | 29 55 | 0 48 | 12 16 | 3 27 |
| 25 | W | 10 13 50 | 1 56 37 | 10 48 | 12 x 35 | 0 N 22 | 6 30 | 3 28 |
| 26 | Th | 10 17 47 | 2 54 32 | 10 27 | 25 28 | 1 32 | 0 24 | 3 29 |
| 27 | F | 10 21 43 | 3 52 29 | 10 6 | 8 r 34 | 2 39 | 5 N 50 | 3 30 |
| 28 | S | 10 25 40 | 4 50 28 | 9 45 | 21 54 | 3 38 | 11 54 | 3 31 |
| 29 | S | 10 29 36 | 5 48 29 | 9 23 | 5 s 28 | 4 26 | 17 31 | 3 32 |
| 30 | M | 10 33 33 | 6 46 32 | 9 2 | 19 14 | 4 59 | 22 20 | 3 33 |
| 31 | Tu | 10 37 29 | 7 44 37 | 8 40 | 3 π 13 | 5 16 | 25 59 | 3 34 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| I | 28 36 | 21 S 30 | 1 N 0 | 5 N 59 | 0 N 42 | 11 N 52 | 10 x 12 |
| 4 | 2 37 | 21 49 | 0 51 | 4 28 | 0 18 | 9 52 | 10 3 |
| 7 | 2 37 | 22 8 | 0 42 | 2 57 | 0 S 1 | 7 53 | 9 53 |
| X | 2 37 | 22 26 | 0 31 | 1 26 | 0 34 | 5 56 | 9 44 |
| 13 | 2 37 | 22 45 | 0 20 | 0 S 7 | 1 5 | 4 4 | 9 34 |
| 16 | 2 37 | 23 4 | 0 9 | | | | 9 25 |
| 19 | 2 36 | 23 22 | 0 S 2 | | | | 9 15 |
| 22 | 2 36 | 23 40 | 0 14 | | | | 9 6 |
| 25 | 2 36 | 23 56 | 0 27 | | | | 8 56 |
| 28 | 2 35 | 24 13 | 0 41 | | | | 8 47 |
| 31 | 2 35 | 24 28 | 0 55 | | | | 8 37 |

| D
M | h
Long. | ♂
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lu
☉ | ta.
♀ | ♂ |
|--------|------------|------------|------------|------------|------------|------------------|---------|----------|---|
| | ° | ° | ° | ° | ° | | | | |
| 1 | 2 54 | 14 35 | 24 46 | 17 11 | 0 46 | h * h | | | |
| 2 | 3 14 | 46 25 | 11 18 | 21 2 | 18 18 | ☿ ☐ h | ☐ | | Δ |
| 3 | 3 9 | 14 57 | 25 36 | 19 31 | 3 48 | | | Δ | |
| 4 | 3 16 | 15 7 | 26 20 | 41 5 | 16 5 | | * | c | ☐ |
| 5 | 3 24 | 15 18 | 26 28 | 21 51 | 6 43 | | | | ☐ |
| 6 | 3 32 | 15 28 | 26 55 | 23 1 | 8 8 | | | | * |
| 7 | 3 40 | 15 38 | 27 22 | 24 10 | 9 31 | | | * | |
| 8 | 3 47 | 15 48 | 27 49 | 25 20 | 10 52 | ☉ * ♀ | ♂ | | |
| 9 | 3 55 | 15 58 | 28 17 | 26 29 | 12 11 | | | | |
| 10 | 4 3 | 16 8 | 28 45 | 27 39 | 13 28 | | c | | |
| 11 | 4 11 | 16 17 | 29 14 | 28 48 | 14 45 | | | | ♂ |
| 12 | 4 18 | 16 27 | 29 42 | 29 57 | 15 58 | ☿ ☐ ♀ | * | Δ | ♂ |
| 13 | 4 26 | 16 36 | 0 11 | 1 6 | 17 10 | | * | | |
| 14 | 4 34 | 16 46 | 0 41 | 2 15 | 18 19 | | | ☐ | |
| 15 | 4 41 | 16 55 | 1 11 | 3 24 | 19 26 | ♀ Δ h | | | |
| 16 | 4 48 | 17 5 | 1 41 | 4 33 | 20 30 | ♀ * h | ☐ | | * |
| 17 | 4 55 | 17 14 | 2 12 | 5 42 | 21 32 | | ♂ | Δ | ♂ |
| 18 | 5 3 | 17 23 | 2 48 | 6 51 | 22 32 | | | ♂ | * |
| 19 | 5 11 | 17 32 | 3 14 | 7 59 | 24 28 | ♂ ☿ h | Δ | | ☐ |
| 20 | 5 18 | 17 40 | 3 45 | 9 7 | 23 22 | | | | ☐ |
| 21 | 5 26 | 17 49 | 4 17 | 10 15 | 25 13 | | | | Δ |
| 22 | 5 33 | 17 57 | 4 49 | 11 23 | 26 2 | | Δ | * | |
| 23 | 5 40 | 18 5 | 5 22 | 12 31 | 26 46 | | | | Δ |
| 24 | 5 47 | 18 13 | 5 51 | 13 39 | 27 27 | ♂ Δ h | ♂ | | |
| 25 | 5 54 | 18 21 | 6 27 | 14 47 | 28 4 | | | ☐ | |
| 26 | 6 2 | 18 29 | 7 0 | 15 55 | 28 33 | | | | ♂ |
| 27 | 6 9 | 18 37 | 7 34 | 17 2 | 29 7 | ☉ ☐ h | | Δ | |
| 28 | 6 16 | 18 45 | 8 8 | 18 10 | 29 31 | ♀ ☐ h | | | ♂ |
| 29 | 6 24 | 18 52 | 8 42 | 19 17 | 29 50 | ♀ Δ ♀ | Δ | | |
| 30 | 6 31 | 19 0 | 9 17 | 20 24 | 0 4 | | | | |
| 31 | 6 38 | 19 7 | 9 51 | 21 31 | 0 13 | | ☐ | c | Δ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 10 | 20 N 42 | 0 N 26 | 19 N 1 | 0 S 39 | 22 N 22 |
| 4 | 15 | 54 | 0 10 | 20 42 | 0 27 | 18 56 | 0 39 | 22 23 |
| 7 | 15 | 54 | 0 10 | 20 42 | 0 27 | 18 51 | 0 39 | 22 25 |
| 10 | 15 | 55 | 0 10 | 20 42 | 0 27 | 18 47 | 0 39 | 22 26 |
| 13 | 15 | 56 | 0 10 | 20 42 | 0 28 | 18 42 | 0 39 | 22 27 |
| 16 | 15 | 56 | 0 10 | 20 42 | 0 28 | 18 37 | 0 40 | 22 28 |
| 19 | 15 | 57 | 0 10 | 20 42 | 0 28 | 18 33 | 0 40 | 22 28 |
| 22 | 15 | 58 | 0 10 | 20 42 | 0 29 | 18 29 | 0 40 | 22 29 |
| 25 | 15 | 59 | 0 10 | 20 41 | 0 29 | 18 24 | 0 40 | 22 30 |
| 28 | 16 | 0 | 0 10 | 20 41 | 0 29 | 18 20 | 0 40 | 22 30 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----------------------|--------------|-----------------------|-----------|--------------|----------------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 10 41 26 | 8 ^m 42 43 | 8 N 19 | 17 ^h 12 23 | 5 N 13 | 28 N 3 | 3 ^h 12 29 |
| 2 | Th | 10 45 23 | 9 40 52 | 7 57 | 1 ^m 54 41 | 4 52 28 | 19 | 3 30 |
| 3 | F | 10 49 19 | 10 39 2 | 7 85 16 | 6 | 4 12 26 | 39 | 3 30 |
| 4 | S | 10 53 16 | 11 37 15 | 7 13 | 0 ^m 52 32 | 3 16 23 | 14 | 3 30 |
| 5 | S | 10 57 12 | 12 35 29 | 6 50 14 | 57 | 2 8 18 | 24 | 3 31 |
| 6 | M | 11 1 9 | 13 33 46 | 6 28 29 | 14 | 0 52 12 | 34 | 3 31 |
| 7 | Tu | 11 5 5 | 14 32 4 | 6 6 13 | ^m 19 | 0 S 26 | 6 10 | 3 31 |
| 8 | W | 11 9 2 | 15 30 24 | 5 43 27 | 8 | 1 41 0 S | 24 | 3 31 |
| 9 | Th | 11 12 59 | 16 28 46 | 5 20 10 | ^m 39 | 2 48 6 | 48 | 3 31 |
| 10 | F | 11 16 55 | 17 27 10 | 4 58 23 | 49 | 3 45 12 | 44 | 3 31 |
| 11 | S | 11 20 52 | 18 25 35 | 4 35 6 | ^m 38 | 4 29 17 | 58 | 3 31 |
| 12 | S | 11 24 48 | 19 24 2 | 4 12 19 | 9 | 4 58 22 | 18 | 3 31 |
| 13 | M | 11 28 45 | 20 22 31 | 3 49 1 | ^f 25 | 5 14 25 | 35 | 3 ^h 31 |
| 14 | Tu | 11 32 41 | 21 21 1 | 3 26 13 | 28 | 5 15 27 | 39 | 3 3 |
| 15 | W | 11 36 38 | 22 19 33 | 3 3 25 | 23 | 5 3 28 | 25 | 3 30 |
| 16 | Th | 11 40 34 | 23 18 7 | 2 40 7 | ^w 16 | 4 37 27 | 58 | 3 30 |
| 17 | F | 11 44 31 | 24 16 42 | 2 16 19 | 10 | 4 0 26 | 3 | 3 29 |
| 18 | S | 11 48 27 | 25 15 19 | 1 53 1 | ^m 10 | 3 12 23 | 3 | 3 29 |
| 19 | S | 11 52 24 | 26 13 58 | 1 30 13 | 20 | 2 15 18 | 59 | 3 28 |
| 20 | M | 11 56 21 | 27 12 38 | 1 7 25 | 44 | 1 11 14 | 4 | 3 28 |
| 21 | Tu | 12 0 17 | 28 11 20 | 0 43 8 | ^x 24 | 0 1 8 | 27 | 3 27 |
| 22 | W | 12 4 14 | 29 10 4 | 0 20 21 | 22 | 1 N 10 | 2 22 | 3 26 |
| 23 | Th | 12 8 10 | 0 ^m 8 50 | 0 S 4 | 4 ^r 37 | 2 18 3 N | 57 | 3 26 |
| 24 | F | 12 12 7 | 1 7 88 | 0 27 18 | 9 | 3 20 10 | 13 | 3 25 |
| 25 | S | 12 16 3 | 2 6 29 | 0 50 1 | ^r 56 | 4 12 16 | 6 | 3 24 |
| 26 | S | 12 20 0 | 3 5 21 | 1 14 15 | 54 | 4 50 21 | 14 | 3 23 |
| 27 | M | 12 23 56 | 4 4 16 | 1 37 0 | ^h 1 | 5 10 25 | 13 | 3 22 |
| 28 | Tu | 12 27 53 | 5 3 12 | 2 1 14 | 12 | 5 12 27 | 41 | 3 21 |
| 29 | W | 12 31 50 | 6 2 12 | 2 24 28 | 24 | 4 54 28 | 21 | 3 20 |
| 30 | Th | 12 35 46 | 7 1 13 | 2 47 12 | ^m 36 | 4 19 27 | 10 | 3 19 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 25 34 | 24 S 33 | 08 59 | 9 S 43 | 38 57 | 13 41 | 8 × 34 |
| 4 | 2 33 | 24 46 | 1 18 | 11 10 | 3 54 | 3 50 | 8 24 |
| 7 | 2 31 | 24 59 | 1 27 | 12 35 | 3 54 | 3 18 | 8 15 |
| 10 | 2 30 | 25 10 | 1 41 | 13 57 | 3 33 | 2 10 | 8 5 |
| 13 | 2 28 | 25 20 | 1 55 | 15 17 | 3 16 | 0 33 | 7 56 |
| 16 | 2 27 | 25 29 | 2 10 | 16 14 | 2 33 | 1 N 23 | 7 46 |
| 19 | 2 25 | 25 35 | 2 25 | 17 49 | 1 48 | 3 16 | 7 37 |
| 22 | 2 24 | 25 40 | 2 39 | 18 59 | 0 47 | 4 45 | 7 27 |
| 25 | 2 22 | 25 44 | 2 53 | 20 7 | 0 N 5 | 5 37 | 7 18 |
| 28 | 2 21 | 25 45 | 3 7 | 21 10 | 0 47 | 5 44 | 7 8 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | I |
|--------|---------|----------|----------|----|-----|---|---|---|---|---|---|---|---|---|
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | 6 24 45 | 19 14 10 | 26 22 39 | | | | | | | | | | | |
| 2 | 6 52 19 | 21 11 | 1 23 45 | | | | | | | | | | | |
| 3 | 6 59 19 | 28 11 | 36 24 52 | | | | | | | | | | | |
| 4 | 7 6 19 | 34 12 | 11 25 58 | 2 | | | | | | | | | | |
| 5 | 7 13 19 | 41 12 | 47 27 42 | | | | | | | | | | | |
| 6 | 7 19 19 | 47 13 | 28 28 11 | 2 | | | | | | | | | | |
| 7 | 7 26 19 | 53 13 | 59 29 17 | | | | | | | | | | | |
| 8 | 7 32 19 | 59 14 | 35 0 23 | 2 | | | | | | | | | | |
| 9 | 7 39 20 | 5 15 | 12 1 28 | 2 | | | | | | | | | | |
| 10 | 7 45 20 | 11 15 | 49 2 34 | 2 | | | | | | | | | | |
| 11 | 7 52 20 | 17 16 | 26 3 39 | 2 | | | | | | | | | | |
| 12 | 7 59 20 | 22 17 | 3 4 44 | 2 | | | | | | | | | | |
| 13 | 8 5 20 | 27 17 | 41 5 49 | 2 | | | | | | | | | | |
| 14 | 8 11 20 | 32 18 | 18 6 54 | 2 | | | | | | | | | | |
| 15 | 8 18 20 | 37 18 | 56 7 58 | 2 | | | | | | | | | | |
| 16 | 8 24 20 | 41 19 | 34 9 2 | 20 | 5 | ♀ | □ | ♂ | | | | | * | |
| 17 | 8 30 20 | 45 20 | 12 10 6 | 19 | 8 | | | | Δ | | | | | Δ |
| 18 | 8 36 20 | 49 20 | 51 11 10 | 18 | 16 | ♂ | ♂ | ♂ | | Δ | | | | |
| 19 | 8 42 20 | 53 21 | 30 12 14 | 17 | 30 | | | | | ♂ | | | □ | |
| 20 | 8 48 20 | 57 22 | 9 13 18 | 16 | 52 | | | | | | Δ | * | | |
| 21 | 8 54 21 | 1 22 | 45 14 21 | 16 | 22 | | | | | | | | Δ | |
| 22 | 9 0 21 | 5 23 | 27 15 24 | 16 | 2 | | | | | | | □ | | ♂ |
| 23 | 9 6 21 | 9 24 | 6 16 26 | 15 | 52 | ♀ | * | ♀ | | | | | | |
| 24 | 9 12 21 | 12 24 | 46 17 29 | 15 | 50 | | | | | | * | Δ | | |
| 25 | 9 18 21 | 15 25 | 25 18 31 | 16 | D 0 | | | | | | | | | |
| 26 | 9 23 21 | 18 26 | 5 19 33 | 18 | 19 | ☉ | Δ | ♂ | | | | | ♂ | Δ |
| 27 | 9 29 21 | 20 26 | 45 20 34 | 16 | 46 | | | | Δ | ♂ | | | | |
| 28 | 9 35 21 | 22 27 | 25 21 35 | 17 | 26 | | | | | * | | | | □ |
| 29 | 9 40 21 | 24 28 | 5 22 36 | 18 | 14 | | | | | | ♂ | ♂ | | |
| 30 | 9 45 21 | 26 28 | 45 23 36 | 19 | 9 | | | | □ | | | | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 10 | 20 N 40 | 0 N 30 | 18 N 16 | 0 S 40 | 22 N 31 |
| 4 | 16 | 2 | 0 10 | 20 39 | 0 30 | 18 13 | 0 40 | 22 31 |
| 7 | 16 | 3 | 0 10 | 20 39 | 0 30 | 18 9 | 0 40 | 22 31 |
| 10 | 16 | 4 | 0 10 | 20 38 | 0 31 | 18 6 | 0 40 | 22 31 |
| 13 | 16 | 5 | 0 10 | 20 37 | 0 31 | 18 2 | 0 40 | 22 31 |
| 16 | 16 | 5 | 0 10 | 20 36 | 0 31 | 17 59 | 0 40 | 22 31 |
| 19 | 16 | 6 | 0 10 | 20 35 | 0 32 | 17 57 | 0 40 | 22 31 |
| 22 | 16 | 7 | 0 10 | 20 34 | 0 32 | 17 54 | 0 40 | 22 31 |
| 25 | 16 | 8 | 0 10 | 20 33 | 0 33 | 17 52 | 0 40 | 22 31 |
| 28 | 16 | 9 | 0 10 | 20 31 | 0 34 | 17 50 | 0 40 | 22 31 |
| 31 | 16 | 9 | 0 10 | 20 30 | 0 34 | 17 48 | 0 39 | 22 31 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|-----------------------|--------------|--------------------|-----------|--------------|-------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 12 39 43 | 8 ^h 0 17 | 3 S 11 | 26 ^h 45 | 3 N 28 | 24 N 14 | 3 ^h 16 |
| 2 | S | 12 43 39 | 8 59 23 | 3 34 | 10 ^h 48 | 2 25 | 19 52 | 3 ^h 17 |
| 3 | S | 12 47 36 | 9 58 31 | 3 57 | 24 46 | 1 14 | 14 26 | 3 16 |
| 4 | M | 12 51 32 | 10 57 42 | 4 20 | 8 ^m 35 | 0 S 1 | 8 20 | 3 15 |
| 5 | Tu | 12 55 29 | 11 ^h 56 55 | 4 44 | 22 15 | 1 15 | 1 56 | 3 14 |
| 6 | W | 12 59 25 | 12 56 10 | 5 7 | 5 ^h 42 | 2 23 | 4 S 28 | 3 13 |
| 7 | Th | 13 3 22 | 13 55 28 | 5 30 | 18 56 | 3 23 | 10 33 | 3 11 |
| 8 | F | 13 7 19 | 14 54 47 | 5 53 | 1 ^m 55 | 4 10 | 16 4 | 3 10 |
| 9 | S | 13 11 15 | 15 54 8 | 6 16 | 14 38 | 4 44 | 20 46 | 3 9 |
| 10 | S | 13 15 12 | 16 53 31 | 6 39 | 27 5 | 5 4 | 24 27 | 3 7 |
| 11 | M | 13 19 8 | 17 52 57 | 7 1 | 9 ^h 19 | 5 9 | 26 58 | 3 5 |
| 12 | Tu | 13 23 5 | 18 52 24 | 7 24 | 21 21 | 5 1 | 28 11 | 3 4 |
| 13 | W | 13 27 1 | 19 51 52 | 7 46 | 3 ^m 15 | 4 40 | 28 5 | 3 3 |
| 14 | Th | 13 30 58 | 20 51 23 | 8 9 | 15 6 | 4 6 | 26 41 | 3 1 |
| 15 | F | 13 34 54 | 21 50 55 | 8 31 | 26 59 | 3 22 | 24 5 | 2 59 |
| 16 | S | 13 38 51 | 22 50 29 | 8 58 | 8 ^m 57 | 2 29 | 20 26 | 2 57 |
| 17 | S | 13 42 48 | 23 50 5 | 9 15 | 21 8 | 1 28 | 15 52 | 2 55 |
| 18 | M | 13 46 44 | 24 49 42 | 9 37 | 3 ^m 34 | 0 22 | 10 33 | 2 53 |
| 19 | Tu | 13 50 41 | 25 49 22 | 9 59 | 16 21 | 0 N 46 | 4 41 | 2 51 |
| 20 | W | 13 54 37 | 26 49 3 | 10 21 | 29 31 | 1 55 | 1 N 33 | 2 50 |
| 21 | Th | 13 58 34 | 27 48 46 | 10 42 | 13 ^h 4 | 2 58 | 7 54 | 2 48 |
| 22 | F | 14 2 30 | 28 48 31 | 11 4 | 27 0 | 3 54 | 14 2 | 2 46 |
| 23 | S | 14 6 27 | 29 48 18 | 11 25 | 11 ^h 14 | 4 34 | 19 33 | 2 44 |
| 24 | S | 14 10 23 | 0 ^m 48 7 | 11 46 | 25 42 | 4 59 | 24 2 | 2 42 |
| 25 | M | 14 14 20 | 1 47 58 | 12 7 | 10 ^h 16 | 5 5 | 27 2 | 2 40 |
| 26 | Tu | 14 18 17 | 2 47 51 | 12 27 | 24 50 | 4 51 | 28 12 | 2 38 |
| 27 | W | 14 22 13 | 3 47 46 | 12 48 | 9 ^h 17 | 4 18 | 27 26 | 2 36 |
| 28 | Th | 14 26 10 | 4 47 44 | 13 8 | 23 35 | 3 30 | 24 51 | 2 34 |
| 29 | F | 14 30 6 | 5 47 43 | 13 28 | 7 ^h 40 | 2 29 | 20 47 | 2 32 |
| 30 | S | 14 34 3 | 6 47 45 | 13 48 | 21 31 | 1 21 | 15 37 | 2 30 |
| 31 | S | 14 37 59 | 7 47 49 | 14 7 | 5 ^m 10 | 0 9 | 9 46 | 2 28 |

OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 2 S 18 | 25 S 45 | 3 S 21 | 22 S 10 | 1 N 20 | 5 N 10 | 6 × 58 |
| 4 | 2 16 | 25 42 | 3 33 | 23 5 | 1 39 | 4 1 | 6 49 |
| 7 | 2 14 | 25 38 | 3 45 | 23 56 | 1 46 | 2 25 | 6 39 |
| 10 | 2 12 | 25 31 | 3 56 | 24 42 | 1 49 | 0 31 | 6 30 |
| 13 | 2 10 | 25 23 | 4 7 | 25 24 | 1 43 | 1 S 34 | 6 20 |
| 16 | 2 7 | 25 12 | 4 17 | 26 1 | 1 36 | 3 44 | 6 11 |
| 19 | 2 4 | 24 59 | 4 25 | 26 33 | 1 21 | 5 56 | 6 1 |
| 22 | 2 1 | 24 44 | 4 32 | 27 0 | 1 7 | 8 6 | 5 52 |
| 25 | 1 59 | 24 26 | 4 37 | 27 22 | 0 49 | 10 13 | 5 42 |
| 28 | 1 57 | 24 7 | 4 42 | 27 39 | 0 32 | 12 15 | 5 33 |
| 31 | 1 55 | 23 46 | 4 46 | 27 51 | 0 14 | 14 11 | 5 23 |

| D
M | ♄ | | ♅ | | ♆ | | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|---------|---------|---------|---------|-------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♁ |
| | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 9 Ω 50 | 21 ♀ 28 | 29 ♀ 26 | 24 ♀ 37 | 20 ♀ 13 | | | * | * | | | Δ | * |
| 2 | 9 56 | 21 30 | 0 ♀ 6 | 25 37 | 21 21 | ♀ ☐ ♀ | | * | | ♄ | | | |
| 3 | 10 1 | 21 32 | 0 47 | 26 36 | 22 36 | ☉ * ♄ | | | | * | Δ | ☐ | |
| 4 | 10 6 | 21 33 | 1 28 | 27 35 | 23 57 | | | ☐ | | | | | |
| 5 | 10 11 | 21 34 | 2 9 | 28 34 | 25 22 | ♀ ♀ ♄ | | | | ☐ | | | ♄ |
| 6 | 10 16 | 21 35 | 2 50 | 29 32 | 26 52 | | | ♄ | Δ | * | | ☐ | * |
| 7 | 10 21 | 21 35 | 3 31 | 0 ♀ 30 | 28 23 | | | ♄ | | | Δ | | |
| 8 | 10 27 | 21 36 | 4 12 | 1 28 | 29 58 | | | | | | | * | |
| 9 | 10 32 | 21 36 | 4 54 | 2 25 | 1 ♄ 36 | | | | ☐ | | | | |
| 10 | 10 36 | 21 36 | 5 36 | 3 22 | 3 14 | ♀ ♀ ♄ | | ♄ | | | | | |
| 11 | 10 40 | 21 37 | 6 18 | 4 18 | 4 54 | ☉ ☐ ♄ | | * | | Δ | | ♄ | * |
| 12 | 10 44 | 21 36 | 7 0 | 5 14 | 6 36 | ♀ ☐ ♄ | | * | | | ♄ | | |
| 13 | 10 48 | 21 35 | 7 42 | 6 9 | 8 17 | | | | | | | ♄ | ☐ |
| 14 | 10 52 | 21 34 | 8 24 | 7 3 | 10 1 | | | ☐ | | | | | |
| 15 | 10 56 | 21 33 | 9 6 | 7 58 | 11 44 | ☉ Δ ♄ | | ☐ | Δ | | | | |
| 16 | 11 0 | 21 32 | 9 48 | 8 50 | 13 27 | | | | | ♄ | | * | Δ |
| 17 | 11 4 | 21 31 | 10 30 | 9 43 | 15 10 | | | Δ | | | Δ | | |
| 18 | 11 8 | 21 30 | 11 13 | 10 35 | 16 53 | | | | ☐ | | | | |
| 19 | 11 12 | 21 28 | 11 56 | 11 27 | 18 36 | ♀ Δ ♄ | | | * | | ☐ | * | ☐ |
| 20 | 11 15 | 21 26 | 12 39 | 12 18 | 20 19 | ♄ ☐ ♄ | | | * | | | | |
| 21 | 11 19 | 21 24 | 13 22 | 13 8 | 22 1 | ♀ Δ ♄ | | ♄ | | Δ | | ☐ | Δ |
| 22 | 11 22 | 21 22 | 14 5 | 13 57 | 23 43 | | | ♄ | | | * | | ♄ |
| 23 | 11 25 | 21 19 | 16 48 | 14 46 | 25 23 | ☉ ♀ ♄ | | | | ☐ | | Δ | |
| 24 | 11 29 | 21 16 | 15 31 | 15 34 | 27 5 | | | | ♄ | | | | |
| 25 | 11 32 | 21 13 | 16 14 | 16 21 | 28 46 | | | | | * | | | ♄ |
| 26 | 11 35 | 21 10 | 16 57 | 17 7 | 0 ♄ 26 | | | | | | ♄ | | Δ |
| 27 | 11 38 | 21 7 | 17 41 | 17 52 | 2 5 | | | Δ | | | | | |
| 28 | 11 41 | 21 8 | 18 24 | 18 36 | 3 44 | ♀ ♀ ♄ | | | | | | ♄ | |
| 29 | 11 44 | 20 59 | 19 8 | 19 20 | 5 23 | ☉ ☐ ♄ | | ☐ | * | ♄ | | | ☐ |
| 30 | 11 46 | 20 55 | 19 51 | 20 2 | 7 1 | ☉ ☐ ♄ | | ☐ | | * | | Δ | * |
| 31 | 11 49 | 20 51 | 20 34 | 20 43 | 8 39 | ♀ ♄ ♄ | | * | ☐ | | | | * |

NOVEMBER XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 8 | 10 | 0 N 34 | 17 N 47 | 0 8 | 39 |
| 4 | 16 | 9 | 0 | 10 | 0 35 | 17 46 | 0 | 39 |
| 7 | 16 | 10 | 0 | 10 | 0 35 | 17 45 | 0 | 39 |
| 10 | 16 | 11 | 0 | 10 | 0 36 | 17 44 | 0 | 39 |
| 13 | 16 | 12 | 0 | 10 | 0 36 | 17 43 | 0 | 39 |
| 16 | 16 | 12 | 0 | 10 | 0 36 | 17 43 | 0 | 39 |
| 19 | 16 | 13 | 0 | 10 | 0 37 | 17 43 | 0 | 39 |
| 22 | 16 | 13 | 0 | 10 | 0 37 | 17 43 | 0 | 39 |
| 25 | 16 | 14 | 0 | 10 | 0 38 | 17 43 | 0 | 38 |
| 28 | 16 | 14 | 0 | 10 | 0 38 | 17 44 | 0 | 38 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | M | 14 41 56 | 8 m 47 55 | 14 S 27 | 18 m 36 | 1 S 2 | 3 N 33 | 20 25 |
| 2 | Tu | 14 45 52 | 9 48 4 | 14 46 | 1 n 51 | 2 9 | 2 S 43 | 20 23 |
| 3 | W | 14 49 49 | 10 48 14 | 15 5 | 14 55 | 3 8 | 8 46 | 2 20 |
| 4 | Th | 14 53 46 | 11 48 26 | 15 23 | 27 48 | 3 56 | 14 22 | 2 15 |
| 5 | F | 14 57 42 | 12 48 40 | 15 42 | 10 m 30 | 4 32 | 19 17 | 2 15 |
| 6 | S | 15 1 39 | 13 48 56 | 16 0 | 23 0 | 4 54 | 23 16 | 2 15 |
| 7 | S | 15 5 35 | 14 49 14 | 16 18 | 5 f 19 | 5 1 | 26 9 | 2 11 |
| 8 | M | 15 9 32 | 15 49 34 | 16 35 | 17 27 | 4 55 | 27 46 | 2 9 |
| 9 | Tu | 15 13 28 | 16 49 54 | 16 53 | 29 26 | 4 36 | 28 4 | 2 1 |
| 10 | W | 15 17 25 | 17 50 17 | 17 16 | 11 w 18 | 4 5 | 27 3 | 2 3 |
| 11 | Th | 15 21 21 | 18 50 41 | 17 27 | 23 6 | 3 24 | 24 50 | 2 1 |
| 12 | F | 15 25 18 | 19 51 6 | 17 43 | 4 m 56 | 2 33 | 21 32 | 1 58 |
| 13 | S | 15 29 15 | 20 51 33 | 17 59 | 16 51 | 1 36 | 17 19 | 1 58 |
| 14 | S | 15 33 11 | 21 52 1 | 18 15 | 28 58 | 0 33 | 12 22 | 1 53 |
| 15 | M | 15 37 8 | 22 52 30 | 18 30 | 11 x 22 | 0 N 32 | 6 49 | 1 50 |
| 16 | Tu | 15 41 4 | 23 53 1 | 18 46 | 24 7 | 1 38 | 0 50 | 1 48 |
| 17 | W | 15 45 1 | 24 53 33 | 19 0 | 7 r 18 | 2 41 | 5 N 22 | 1 46 |
| 18 | Th | 15 48 57 | 25 54 6 | 19 15 | 20 58 | 3 36 | 11 32 | 1 4 |
| 19 | F | 15 52 54 | 26 54 41 | 19 29 | 5 r 6 | 4 21 | 17 19 | 1 4 |
| 20 | S | 15 56 50 | 27 55 16 | 19 43 | 19 36 | 4 50 | 22 16 | 1 2 |
| 21 | S | 16 0 47 | 28 55 54 | 19 56 | 4 n 29 | 5 0 | 25 58 | 1 3 |
| 22 | M | 16 4 44 | 29 56 33 | 20 9 | 19 30 | 4 50 | 27 52 | 1 3 |
| 23 | Tu | 16 8 40 | 0 f 57 13 | 20 22 | 4 s 30 | 4 20 | 27 43 | 1 2 |
| 24 | W | 16 12 37 | 1 57 55 | 20 34 | 19 21 | 3 32 | 25 34 | 1 2 |
| 25 | Th | 16 16 33 | 2 58 38 | 20 46 | 3 Q 56 | 2 31 | 21 44 | 1 2 |
| 26 | F | 16 20 30 | 3 59 23 | 20 58 | 18 10 | 1 22 | 16 42 | 1 24 |
| 27 | S | 16 24 26 | 5 0 9 | 21 9 | 2 m 4 | 0 10 | 10 54 | 1 21 |
| 28 | S | 16 28 23 | 6 0 57 | 21 20 | 15 37 | 1 S 1 | 4 44 | 1 17 |
| 29 | M | 16 32 19 | 7 1 47 | 21 30 | 28 51 | 2 7 | 1 S 29 | 1 16 |
| 30 | Tu | 16 36 16 | 8 2 38 | 21 40 | 11 n 50 | 3 6 | 7 32 | 1 14 |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 10 | 20 N 15 | 0 N 38 | 17 N 45 | 0 S 38 | 22 N 14 |
| 4 | 16 | 16 | 0 10 | 20 14 | 0 39 | 17 47 | 0 38 | 22 15 |
| 7 | 16 | 17 | 0 10 | 20 12 | 0 40 | 17 48 | 0 37 | 22 16 |
| 10 | 16 | 17 | 0 10 | 20 11 | 0 40 | 17 50 | 0 37 | 22 17 |
| 13 | 16 | 17 | 0 10 | 20 9 | 0 41 | 17 52 | 0 37 | 22 18 |
| 16 | 16 | 18 | 0 10 | 20 8 | 0 41 | 17 55 | 0 36 | 22 19 |
| 19 | 16 | 18 | 0 10 | 20 7 | 0 42 | 17 57 | 0 36 | 22 20 |
| 22 | 16 | 18 | 0 10 | 20 5 | 0 42 | 18 0 | 0 35 | 22 21 |
| 25 | 16 | 18 | 0 10 | 20 4 | 0 43 | 18 3 | 0 35 | 21 58 |
| 28 | 16 | 18 | 0 10 | 20 3 | 0 43 | 18 7 | 0 34 | 21 57 |
| 31 | 16 | 18 | 0 10 | 20 2 | 0 44 | 18 10 | 0 34 | 21 56 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 16 | 40 | 13 | 9 † 3 30 | 21 S 50 | 24 ♄ 36 | 3 S 53 | 13 S 9 | 10 11 |
| 2 | Th | 16 | 44 | 9 | 10 4 24 | 21 59 | 7 ♄ 10 | 4 29 | 18 9 | 10 12 |
| 3 | F | 16 | 48 | 6 | 11 5 18 | 22 7 | 19 34 | 4 51 | 22 18 | 1 3 |
| 4 | S | 16 | 52 | 2 | 12 6 15 | 22 16 | 1 † 50 | 5 0 | 25 26 | 1 4 |
| 5 | S | 16 | 55 | 59 | 13 7 12 | 22 24 | 13 58 | 4 54 | 27 22 | 1 1 |
| 6 | M | 16 | 59 | 55 | 14 8 10 | 22 31 | 25 58 | 4 36 | 28 0 | 0 50 |
| 7 | Tu | 17 | 3 | 52 | 15 9 9 | 22 38 | 7 ♄ 53 | 4 5 | 27 18 | 0 50 |
| 8 | W | 17 | 7 | 48 | 16 10 9 | 22 44 | 19 42 | 3 24 | 25 23 | 0 53 |
| 9 | Th | 17 | 11 | 45 | 17 11 10 | 22 51 | 1 ♄ 30 | 2 35 | 22 21 | 0 55 |
| 10 | F | 17 | 15 | 42 | 18 12 11 | 22 56 | 13 19 | 1 38 | 18 24 | 0 57 |
| 11 | S | 17 | 19 | 38 | 19 13 13 | 23 1 | 25 13 | 0 37 | 13 43 | 0 59 |
| 12 | S | 17 | 23 | 35 | 20 14 15 | 23 6 | 7 ♄ 16 | 0 N 27 | 8 25 | 0 59 |
| 13 | M | 17 | 27 | 31 | 21 15 18 | 23 10 | 19 35 | 1 31 | 2 43 | 0 59 |
| 14 | Tu | 17 | 31 | 28 | 22 16 21 | 23 14 | 2 ♄ 15 | 2 33 | 3 N 14 | 0 59 |
| 15 | W | 17 | 35 | 24 | 23 17 24 | 23 17 | 15 20 | 3 28 | 9 15 | 0 59 |
| 16 | Th | 17 | 39 | 21 | 24 18 28 | 23 20 | 28 54 | 4 14 | 15 3 | 0 59 |
| 17 | F | 17 | 43 | 18 | 25 19 33 | 23 23 | 12 ♄ 59 | 4 47 | 20 18 | 0 59 |
| 18 | S | 17 | 47 | 14 | 26 20 37 | 23 25 | 27 32 | 5 2 | 24 32 | 0 59 |
| 19 | S | 17 | 51 | 11 | 27 21 43 | 23 26 | 12 ♄ 30 | 4 58 | 27 14 | 0 59 |
| 20 | M | 17 | 55 | 7 | 28 22 48 | 23 27 | 27 43 | 4 32 | 27 59 | 0 59 |
| 21 | Tu | 17 | 59 | 4 | 29 23 54 | 23 27 | 13 ♄ 1 | 3 47 | 26 35 | 0 59 |
| 22 | W | 18 | 3 | 0 | 0 ♄ 25 | 1 23 | 28 12 | 2 46 | 23 15 | 0 59 |
| 23 | Th | 18 | 6 | 57 | 1 26 7 | 23 27 | 13 ♄ 8 | 1 34 | 18 24 | 0 59 |
| 24 | F | 18 | 10 | 53 | 2 27 15 | 23 26 | 27 40 | 0 18 | 12 35 | 0 59 |
| 25 | S | 18 | 14 | 50 | 3 28 23 | 23 25 | 11 ♄ 47 | 0 S 57 | 6 16 | 0 59 |
| 26 | S | 18 | 18 | 47 | 4 29 31 | 23 23 | 25 27 | 2 7 | 0 S 8 | 0 59 |
| 27 | M | 18 | 22 | 43 | 5 30 41 | 23 21 | 8 ♄ 43 | 3 8 | 6 20 | 0 59 |
| 28 | Tu | 18 | 26 | 40 | 6 31 50 | 23 18 | 21 38 | 3 57 | 12 6 | 0 59 |
| 29 | W | 18 | 30 | 36 | 7 33 0 | 23 15 | 4 ♄ 16 | 4 34 | 17 15 | 0 59 |
| 30 | Th | 18 | 34 | 33 | 8 34 11 | 23 11 | 16 39 | 4 57 | 21 34 | 0 59 |
| 31 | F | 18 | 38 | 29 | 9 35 21 | 23 7 | 28 52 | 5 6 | 24 54 | 0 59 |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 1 S 25 | 18 S 6 | 2 S 4 | 25 S 30 | 2 S 21 | 25 S 46 | 3 × 45 |
| 4 | 1 22 | 17 23 | 1 26 | 24 49 | 2 22 | 25 50 | 3 35 |
| 7 | 1 19 | 16 39 | 0 41 | 24 4 | 2 18 | 25 41 | 3 26 |
| 10 | 1 16 | 15 53 | 0 N 5 | 23 14 | 2 7 | 25 19 | 3 16 |
| 13 | 1 13 | 15 6 | 0 51 | 22 22 | 1 48 | 24 46 | 3 7 |
| 16 | 1 10 | 14 18 | 1 37 | 21 29 | 1 21 | 24 3 | 2 57 |
| 19 | 1 7 | 13 29 | 2 22 | 20 37 | 0 43 | 23 14 | 2 47 |
| 22 | 1 4 | 12 38 | 2 59 | 19 49 | 0 N 6 | 22 24 | 2 38 |
| 25 | 1 1 | 11 47 | 3 28 | 19 7 | 1 4 | 21 38 | 2 28 |
| 28 | 0 58 | 10 55 | 3 48 | 18 32 | 2 1 | 20 59 | 2 19 |
| 31 | 0 55 | 10 2 | 3 59 | 18 4 | 2 48 | 20 20 | 2 9 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|---------|---------|---------|---------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♂ | ♀ | ♂ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 12 Ω 16 | 17 Π 31 | 13 ♉ 38 | 28 ♊ 20 | 26 ♊ 17 | ♀ ∠ ♂ | | | | | * | * |
| 2 | 12 R 15 | 17 R 23 | 14 23 | 28 R 0 | 27 43 | ♀ □ ♄ | | | □ | | | |
| 3 | 12 14 | 17 15 | 15 9 | 27 38 | 29 9 | | | | | □ | | |
| 4 | 12 13 | 17 7 | 15 54 | 27 14 | 0 ♉ 33 | ☉ Δ ♄ | | ♂ | | | | |
| 5 | 12 12 | 16 59 | 16 39 | 26 48 | 1 56 | ♂ Δ ♄ | ♂ | | Δ | ♂ | * | |
| 6 | 12 11 | 16 51 | 17 24 | 26 20 | 3 17 | | | | | | ♂ | |
| 7 | 12 10 | 16 42 | 18 10 | 25 48 | 4 37 | | | | | | | ♂ |
| 8 | 12 8 | 16 34 | 18 55 | 25 16 | 5 55 | ☉ ♂ ♄ | | | | | | |
| 9 | 12 6 | 16 26 | 19 41 | 24 43 | 7 10 | | | Δ | | | | |
| 10 | 12 4 | 16 18 | 20 26 | 24 8 | 8 23 | | * | | ♂ | Δ | | |
| 11 | 12 2 | 16 10 | 21 12 | 23 33 | 9 33 | | | □ | | | ♂ | * |
| 12 | 12 0 | 16 2 | 21 57 | 22 57 | 10 40 | | | | | | | * |
| 13 | 11 58 | 15 53 | 22 43 | 22 21 | 11 43 | ♀ * ♂ | □ | * | | □ | □ | |
| 14 | 11 56 | 15 45 | 23 28 | 21 45 | 12 39 | ♀ ♂ ☉ | | * | | | Δ | □ |
| 15 | 11 54 | 15 37 | 24 14 | 21 8 | 13 32 | | | | Δ | * | Δ | □ |
| 16 | 11 52 | 15 29 | 24 59 | 20 32 | 14 18 | | Δ | | | | * | |
| 17 | 11 50 | 15 21 | 25 45 | 19 56 | 14 57 | | | | □ | | | Δ |
| 18 | 11 47 | 15 13 | 26 30 | 19 22 | 15 27 | ☉ □ ♄ | | ♂ | | | □ | |
| 19 | 11 44 | 15 5 | 27 16 | 18 48 | 15 50 | ☉ * ♂ | | | * | ♂ | ♂ | |
| 20 | 11 41 | 14 57 | 28 1 | 18 16 | 16 3 | | ♂ | | | | Δ | |
| 21 | 11 38 | 14 50 | 28 47 | 17 45 | 16 6 | | | | | | | ♂ |
| 22 | 11 35 | 14 42 | 29 32 | 17 16 | 15 R 57 | | | * | | | | |
| 23 | 11 32 | 14 34 | 0 × 18 | 16 48 | 15 36 | ♂ □ ♄ | | | ♂ | * | Δ | |
| 24 | 11 28 | 14 27 | 1 4 | 16 23 | 15 4 | ♀ ∠ ♂ | Δ | □ | | | ♂ | |
| 25 | 11 25 | 14 20 | 1 50 | 16 0 | 14 19 | | | | | □ | □ | Δ |
| 26 | 11 22 | 14 13 | 2 35 | 15 39 | 13 24 | | | Δ | | | | |
| 27 | 11 18 | 14 6 | 8 20 | 15 20 | 12 19 | | □ | | * | Δ | | □ |
| 28 | 11 14 | 13 59 | 4 5 | 15 4 | 11 8 | | | | | | * | |
| 29 | 11 10 | 13 52 | 4 52 | 14 50 | 9 50 | | * | | | | Δ | * |
| 30 | 11 5 | 13 45 | 5 37 | 14 39 | 8 28 | ☉ ♂ ♄ | | | □ | | | |
| 31 | 11 1 | 13 38 | 6 22 | 14 30 | 7 7 | | | ♂ | | | | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 32 | 5 | 28 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 28 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 28 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 6 | 2 | 8 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 46 | 9 | 2 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 26 | 11 | 22 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 49 | 13 | 8 |
| 0 | 44 | 8 | 12 | 23 | 4 | 5 | 58 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 9 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | Q | 26 | 46 | 15 | 11 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 2 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 14 |
| 1 | 10 | 7 | 19 | II | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | Q | 12 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 20 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 0 | 5 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 12 | 12 | 23 | 29 | 21 | 3 | 18 | 19 | 22 | 1 | 6 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 30 | 22 | 3 | 22 | 22 | 23 | 2 | 7 | 3 | 59 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 39 | 1 | 23 | 3 | 26 | 29 | 24 | 3 | 8 | 3 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 4 | 8 | 4 | 23 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 2 | 25 | 3 | 34 | 41 | 26 | 5 | 9 | 5 | 5 | 26 | 21 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 6 | 10 | 5 | 47 | 26 | 22 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 7 | 11 | 6 | 30 | 27 | 23 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 24 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 52 | 5 | 28 | 3 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 28 | 25 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 22 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 42 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 12 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 26 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 13 | 5 | 14 | 16 | 11 | 30 | 2 | 30 | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 29 |
| 4 | 20 | 40 | 7 | 16 | 18 | 12 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 29 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | 30 | 30 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 31 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 29 | 32 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 33 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 34 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 43 | 35 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 36 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 37 | 7 |
| 4 | 59 | 10 | 16 | 24 | 26 | 19 | 33 | 12 | 10 | 7 | 9 | 26 | 16 | 22 | 20 | 11 | 56 | 38 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 40 | 39 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 40 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 41 | 11 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 25 | 23 | 14 | 53 | 42 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 36 | 43 | 13 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 20 | 44 | 14 |
| 5 | 29 | 30 | 23 | Q | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 45 | 15 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 46 | 16 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 28 | 18 | 30 | 47 | 17 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 1 | 29 | 19 | 12 | 48 | 18 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 2 | 29 | 19 | 57 | 49 | 19 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 3 | 30 | 20 | 40 | 50 | 20 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 4 | 1 | 21 | 22 | 51 | 21 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 9 | 8 | 46 | 30 | 5 | 2 | 22 | 8 | 52 | 22 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|----|
| | | | Ω | μ | Δ | Δ | | μ | † | | | | μ | μ | Δ | μ | | μ | † | |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 13 | 28 | 11 | 20 | |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 | |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 | |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 | |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 | |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 | |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 | |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | μ | 17 | 0 | 17 | 26 | |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 | |
| 8 | 45 | 48 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 | |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | 29 | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 | |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | wa | |
| 8 | 57 | 52 | 12 | 16 | 11 | 0m | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 18 | 21 | 1 | |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 | |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 3 | |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 4 | |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | † | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 5 | |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 6 | |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 7 | |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 8 | |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 9 | |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 10 | |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 13 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 11 | |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | † | 12 | |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 13 | |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 14 | |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 15 | |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 16 | |
| 10 | 0 | 43 | 28 | Δ | 24 | 11 | 9 | 10 | 18 | 11 | 52 | 49 | 28 | 25 | 15 | 0 | † | 35 | 4 | 17 |
| 10 | 4 | 23 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 18 | |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 19 | |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | Δ | Δ | μ | † | | μ | wa | | | | μ | μ | Δ | † | | wa | † |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 12 | 51 | 37 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 3 | 49 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 28 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 12 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | T |
| 12 | 11 | 0 | 3 | μ | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 28 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 12 | 2 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 3 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 28 | 14 | 14 | 44 | 6 | 26 | 12 | 28 | 5 | 16 | 4 |
| 12 | 26 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 5 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | × | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 6 |
| 12 | 33 | 4 | 9 | 4 | 22 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0m | 45 | 20 | 7 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | † | 16 | 1 | 40 | 21 | 8 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 9 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 10 |
| 12 | 47 | 50 | 13 | 7 | 25 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 11 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 12 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 13 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | × | 14 |
| 13 | 2 | 40 | 17 | 11 | 28 | 12 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 15 |
| 13 | 6 | 23 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 16 |
| 13 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 38 | 6 | 17 |
| 13 | 13 | 51 | 20 | 13 | † | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 18 |
| 13 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 19 |
| 13 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 20 |
| 13 | 25 | 6 | 23 | 15 | 3 | 17 | 38 | 29 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 21 |
| 13 | 28 | 52 | 24 | 16 | 3 | 18 | 25 | wa | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 22 |
| 13 | 32 | 38 | 25 | 17 | 4 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 23 |
| 13 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 21 | 15 | 34 | 41 | 26 | 14 | † | 18 | 53 | 19 | 24 |
| 13 | 40 | 12 | 27 | 19 | 6 | 20 | 43 | 3 | 22 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 25 |
| 13 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 23 | 15 | 42 | 57 | 28 | 15 | 2 | 21 | 28 | 22 | 26 |
| 13 | 47 | 49 | 29 | 21 | 7 | 22 | 16 | 5 | 24 | 15 | 46 | 6 | 29 | 16 | 3 | 22 | 50 | 24 | 27 |
| 13 | 51 | 37 | 30 | 22 | 8 | 23 | 4 | 6 | 25 | 15 | 50 | 15 | 30 | 17 | 4 | 23 | 19 | 25 | 28 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | | | ° | ° | | | | ° | ° | ° | | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 13 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 23 | 1 | 18 | 11 | 2 | 53 | 21 | 14 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 12 | 5 | 46 | 23 | 15 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 13 | 8 | 35 | 25 | 16 |
| 16 | 8 | 0 | 4 | 21 | 8 | Om | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 14 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 49 | 4 | 13 | 18 | 21 | 49 | 5 | 22 | 15 | 14 | 9 | 27 | 18 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 23 | 16 | 18 | 56 | 29 | 19 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 17 | 19 | 38 | 11 | 20 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 18 | 22 | 16 | 1 | 21 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 19 | 24 | 51 | 2 | 22 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 20 | 27 | 24 | 4 | 23 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 21 | 29 | 53 | 5 | 24 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 30 | 22 | 30 | 19 | 7 | 25 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 31 | 23 | 4 | 40 | 8 | 26 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 32 | 24 | 6 | 53 | 9 | 27 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 40 | 25 | 26 | 19 | 5 | 8 | 15 | 33 | 25 | 9 | 11 | 10 | 28 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 3 | 27 | 27 | 19 | 9 | 20 | 16 | 34 | 26 | 11 | 21 | 11 | 29 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 35 | 27 | 13 | 29 | 12 | 30 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 30 | 29 | 19 | 18 | 1 | 18 | 36 | 28 | 15 | 30 | 14 | 1 |
| 17 | 12 | 9 | 19 | 6 | 24 | 0 | 7 | 32 | 30 | 19 | 22 | 18 | 19 | 37 | 29 | 17 | 29 | 15 | 2 |
| 17 | 16 | 29 | 20 | 7 | 25 | 2 | 36 | 33 | 31 | 19 | 26 | 34 | 20 | 38 | 30 | 19 | 24 | 16 | 3 |
| 17 | 20 | 49 | 21 | 8 | 26 | 5 | 9 | 35 | 32 | 19 | 30 | 50 | 21 | 39 | 31 | 21 | 16 | 16 | 4 |
| 17 | 25 | 9 | 22 | 9 | 27 | 7 | 44 | 37 | 33 | 19 | 35 | 5 | 22 | 40 | 32 | 23 | 5 | 18 | 5 |
| 17 | 29 | 30 | 23 | 10 | 28 | 10 | 23 | 38 | 34 | 19 | 39 | 20 | 23 | 41 | 33 | 24 | 51 | 19 | 6 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 40 | 35 | 19 | 43 | 34 | 24 | 42 | 34 | 26 | 33 | 20 | 7 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 42 | 36 | 19 | 47 | 47 | 25 | 43 | 35 | 28 | 12 | 21 | 8 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 44 | 37 | 19 | 52 | 0 | 26 | 44 | 36 | 29 | 49 | 22 | 9 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 26 | 46 | 38 | 19 | 56 | 12 | 27 | 45 | 37 | 11 | 20 | 23 | 10 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 48 | 39 | 20 | 0 | 24 | 28 | 46 | 38 | 2 | 51 | 25 | 11 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 50 | 40 | 20 | 4 | 35 | 29 | 47 | 39 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 52 | 41 | 20 | 8 | 45 | 30 | 48 | 40 | 5 | 47 | 28 | 13 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 3 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | | | ° | ° | | | | ° | ° | ° | | | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 22 | 8 | 23 | 0 | 8 | 23 | 6 | 58 | 22 | 9 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 22 | 12 | 12 | 1 | 9 | 24 | 7 | 44 | 23 | 10 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 33 | 29 | 15 | 22 | 16 | 0 | 2 | 10 | 25 | 8 | 31 | 24 | 11 |
| 20 | 21 | 11 | 3 | 26 | 9 | 9 | 50 | 30 | 16 | 22 | 19 | 48 | 3 | 11 | 26 | 9 | 17 | 25 | 12 |
| 20 | 25 | 19 | 4 | 27 | 11 | 11 | 7 | 35 | 17 | 22 | 23 | 35 | 4 | 12 | 27 | 10 | 3 | 26 | 13 |
| 20 | 29 | 26 | 5 | 28 | 13 | 13 | 23 | 1 | 18 | 22 | 27 | 22 | 5 | 13 | 28 | 10 | 50 | 27 | 14 |
| 20 | 33 | 31 | 6 | 29 | 15 | 15 | 39 | 2 | 19 | 22 | 31 | 8 | 6 | 14 | 29 | 11 | 36 | 28 | 15 |
| 20 | 37 | 37 | 7 | 30 | 17 | 17 | 50 | 3 | 20 | 22 | 34 | 54 | 7 | 15 | 30 | 12 | 23 | 27 | 16 |
| 20 | 41 | 41 | 8 | 31 | 18 | 18 | 0 | 4 | 21 | 22 | 38 | 40 | 8 | 16 | 31 | 13 | 6 | 28 | 17 |
| 20 | 45 | 45 | 9 | 32 | 20 | 20 | 8 | 5 | 22 | 22 | 42 | 25 | 9 | 17 | 32 | 14 | 49 | 29 | 18 |
| 20 | 49 | 49 | 10 | 33 | 22 | 22 | 16 | 6 | 23 | 22 | 46 | 9 | 10 | 18 | 33 | 15 | 33 | 30 | 19 |
| 20 | 53 | 51 | 11 | 34 | 24 | 24 | 23 | 7 | 24 | 22 | 49 | 53 | 11 | 19 | 34 | 16 | 17 | 31 | 20 |
| 20 | 57 | 52 | 12 | 35 | 26 | 26 | 27 | 8 | 25 | 22 | 53 | 37 | 12 | 20 | 35 | 17 | 0 | 32 | 21 |
| 21 | 1 | 53 | 13 | 36 | 27 | 27 | 30 | 9 | 26 | 22 | 57 | 20 | 13 | 21 | 36 | 18 | 43 | 33 | 22 |
| 21 | 5 | 53 | 14 | 37 | 29 | 29 | 33 | 10 | 27 | 23 | 1 | 3 | 14 | 22 | 37 | 19 | 25 | 34 | 23 |
| 21 | 9 | 53 | 15 | 38 | 31 | 31 | 36 | 11 | 28 | 23 | 4 | 46 | 15 | 23 | 38 | 20 | 7 | 35 | 24 |
| 21 | 13 | 52 | 16 | 39 | 33 | 33 | 39 | 12 | 29 | 23 | 8 | 28 | 16 | 24 | 39 | 21 | 49 | 36 | 25 |
| 21 | 17 | 50 | 17 | 40 | 35 | 35 | 30 | 13 | 30 | 23 | 12 | 10 | 17 | 25 | 40 | 22 | 31 | 37 | 26 |
| 21 | 21 | 47 | 18 | 41 | 37 | 37 | 28 | 14 | 31 | 23 | 16 | 52 | 18 | 26 | 41 | 23 | 12 | 38 | 27 |
| 21 | 25 | 44 | 19 | 42 | 39 | 39 | 24 | 15 | 32 | 23 | 19 | 34 | 19 | 27 | 42 | 24 | 53 | 39 | 28 |
| 21 | 29 | 40 | 20 | 43 | 41 | 41 | 20 | 16 | 33 | 23 | 23 | 15 | 20 | 28 | 43 | 25 | 34 | 40 | 29 |
| 21 | 33 | 36 | 21 | 44 | 43 | 43 | 15 | 17 | 34 | 23 | 26 | 56 | 21 | 29 | 44 | 26 | 14 | 41 | 30 |
| 21 | 37 | 30 | 22 | 45 | 45 | 45 | 9 | 18 | 35 | 23 | 30 | 37 | 22 | 30 | 45 | 27 | 52 | 42 | 31 |
| 21 | 41 | 28 | 23 | 46 | 47 | 47 | 1 | 19 | 36 | 23 | 34 | 18 | 23 | 31 | 46 | 28 | 33 | 43 | 32 |
| 21 | 45 | 16 | 24 | 47 | 49 | 49 | 1 | 20 | 37 | 23 | 37 | 58 | 24 | 32 | 47 | 29 | 13 | 44 | 33 |
| 21 | 49 | 9 | 25 | 48 | 51 | 51 | 3 | 21 | 38 | 23 | 41 | 39 | 25 | 33 | 48 | 30 | 52 | 45 | 34 |
| 21 | 53 | 1 | 26 | 49 | 53 | 53 | 3 | 22 | 39 | 23 | 45 | 19 | 26 | 34 | 49 | 31 | 33 | 46 | 35 |
| 21 | 56 | 52 | 27 | 50 | 55 | 55 | 4 | 23 | 40 | 23 | 49 | 0 | 27 | 35 | 50 | 32 | 11 | 47 | 36 |
| 22 | 0 | 43 | 28 | 51 | 57 | 57 | 5 | 24 | 41 | 23 | 52 | 40 | 28 | 36 | 51 | 33 | 49 | 48 | 37 |
| 22 | 4 | 38 | 29 | 52 | 59 | 59 | 6 | 25 | 42 | 23 | 56 | 20 | 29 | 37 | 52 | 34 | 57 | 49 | 38 |
| 22 | 8 | 30 | 30 | 53 | 61 | 61 | 6 | 26 | 43 | 23 | 0 | 0 | 30 | 38 | 53 | 35 | 59 | 50 | 39 |

DR. ROOKE'S ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their STRENGTHENING and RESTORATIVE Properties. Hence their invariable success in the PREVENTION and CURE of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the NERVOUS SYSTEM,

whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The ORIENTAL PILLS are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The SOLAR ELIXIR in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. ROOKE'S "ANTI-LANCET, OR HANDY GUIDE TO DOMESTIC MEDICINE," which contains 172 pages, and is replete with anecdotes, sketches, biographical notices, portraits of eminent men, etc.

It may be obtained GRATIS of any Chemist, or POST FREE from Dr. ROOKE, Scarborough, England.

Concerning this book the late eminent Author, SHERRIDAN KNOWLES, has written:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S BALSAMIC

COUGH ELIXIR

This is a leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Whooping Cough, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Lungs.

Sold in Bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by JAMES M. CROSBY, Chemist, Scarborough.

Invalids should read Crosby's Prize Treatise on "DISEASES OF THE THROAT AND AIR PASSAGES," a copy of which can be had Gratis of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR

CROSBY'S BALSAMIC COUGH ELIXIR

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such false remedies, which yield momentary relief at the expense of weakening the digestive organs, and thus increase that debility which is the root of the malady, modern science points to **CROSBY'S BALSAMIC COUGH ELIXIR** as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says: "I have repeatedly observed how very rapidly and invariably this Elixir cures Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as the most valuable adjunct to an otherwise strengthening treatment of this disease."

CROSBY'S BALSAMIC COUGH ELIXIR

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only cures the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

**CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by **JAS. M. CROSBY**, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Ask your Chemist for the New Edition (Cheap) of Crosby's Treatise on "**DISEASES OF THE LUNGS AND AIR-VESICLES**," containing full and plain instructions for the relief and cure of all diseases, or Post Free from **JAS. M. CROSBY**, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

RAPHAEL'S

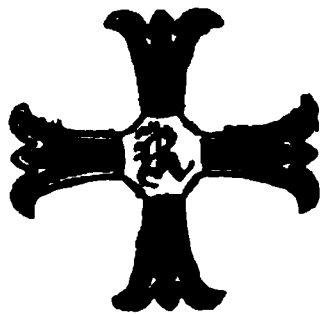
ASTRONOMICAL EPHEMERIS

OF THE

PLANETS' PLACES

For 1859.

(REVISED AND CORRECTED.)



LONDON:

PRINTED AND PUBLISHED BY THE AUTHOR.

1883.

Price One Shilling.

(Alm.) 939-160

DR. ROOKE'S ANTI-LANCET

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Mallbran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read DR. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from DR. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed: "It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Roke under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its value and matter I can judge, for I have been an author on other themes for many years. None but a master-mind and men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual world of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of any Chemists, or post free from Dr. Roke, Scarborough, England.

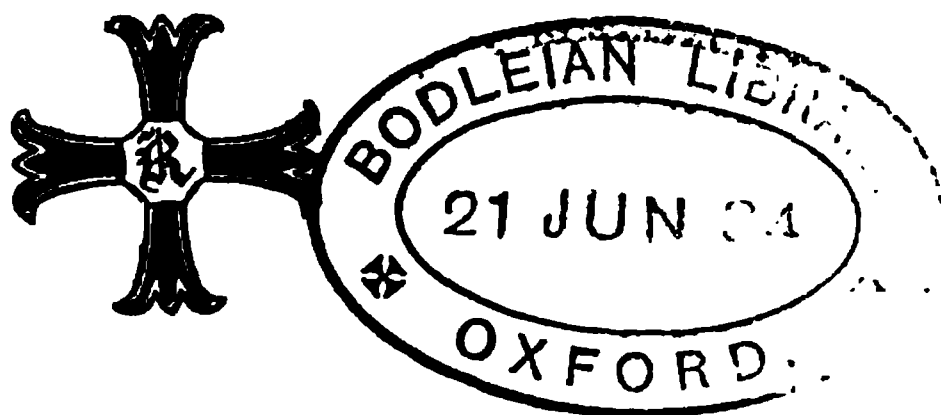
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 172 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES .

For 1859.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| I | 16 | 18 | 08 | 9 | 20 N 1 | 0 N 44 | 18 N 11 | 08 13 |
| 4 | 16 | 18 | 0 | 9 | 20 | 0 | 0 33 | 21 52 |
| 7 | 16 | 18 | 0 | 9 | 19 59 | 0 44 | 18 19 | 0 32 |
| 10 | 16 | 18 | 0 | 9 | 19 59 | 0 45 | 18 23 | 0 32 |
| III | 16 | 18 | 0 | 9 | 19 58 | 0 45 | 18 27 | 0 31 |
| 16 | 16 | 18 | 0 | 9 | 19 57 | 0 45 | 18 31 | 0 30 |
| 19 | 16 | 17 | 0 | 9 | 19 57 | 0 46 | 18 35 | 0 30 |
| 22 | 16 | 17 | 0 | 9 | 19 56 | 0 46 | 18 39 | 0 29 |
| 25 | 16 | 17 | 0 | 9 | 19 56 | 0 47 | 18 43 | 0 29 |
| 28 | 16 | 17 | 0 | 9 | 19 55 | 0 47 | 18 48 | 0 28 |
| III | 16 | 16 | 0 | 9 | 19 55 | 0 48 | 18 52 | 0 28 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° | ' | ° | ' | ° | ' |
| 1 | S | 18 42 26 | 10 w 11 | 23 S 2 | 10 7 58 | 5 S 1 | 27 S 4 | 0 II 4 |
| 2 | S | 18 46 22 | II | 37 43 | 22 57 | 22 54 | 4 43 | 27 59 |
| III | M | 18 50 19 | 12 | 38 54 | 22 51 | 4 w 47 | 4 16 | 27 38 |
| 4 | Tu | 18 54 16 | 13 | 40 5 | 22 45 | 16 38 | 3 32 | 25 56 |
| 5 | W | 18 58 12 | 14 | 41 16 | 22 39 | 28 27 | 2 42 | 23 8 |
| 6 | Th | 19 2 9 | 15 | 42 27 | 22 32 | 10 17 | 1 44 | 19 21 |
| 7 | F | 19 6 5 | 16 | 43 37 | 22 25 | 22 9 | 0 42 | 14 48 |
| 8 | S | 19 10 2 | 17 | 44 47 | 22 17 | 4 7 | 0 N 23 | 9 39 |
| 9 | S | 19 13 59 | III | 45 57 | 22 9 | 16 13 | 1 27 | 4 6 |
| 10 | M | 19 17 55 | 19 | 47 6 | 22 0 | 28 33 | 2 29 | 1 N 42 |
| 11 | Tu | 19 21 51 | 20 | 48 14 | 21 51 | 11 10 | 3 26 | 7 35 |
| III | W | 19 25 48 | 21 | 49 21 | 21 41 | 24 10 | 4 18 | 13 18 |
| 13 | Th | 19 29 45 | 22 | 50 31 | 21 31 | 7 34 | 4 48 | 18 35 |
| 14 | F | 19 33 41 | 23 | 51 35 | 21 21 | 21 27 | 5 8 | 23 6 |
| III | S | 19 37 38 | 24 | 52 40 | 21 10 | 5 47 | 5 10 | 26 22 |
| 16 | S | 19 41 34 | 25 | 53 45 | 20 59 | 20 33 | 4 52 | 27 58 |
| 17 | M | 19 45 31 | 26 | 54 49 | 20 48 | 5 39 | 4 13 | 27 33 |
| 18 | Tu | 19 49 27 | 27 | 55 52 | 20 36 | 20 55 | 3 16 | 25 3 |
| 19 | W | 19 53 24 | 28 | 56 55 | 20 23 | 6 10 | 2 4 | 20 45 |
| 20 | Th | 19 57 20 | 29 | 57 57 | 20 10 | 21 16 | 0 45 | 15 8 |
| III | F | 20 1 17 | 0 m 58 | 58 19 | 57 6 | 2 0 | 0 S 36 | 8 45 |
| 22 | S | 20 5 14 | 1 | 59 59 | 19 44 | 20 24 | 1 52 | 2 5 |
| 23 | S | 20 9 10 | 3 | 0 59 | 19 30 | 4 18 | 3 0 | 4 S 27 |
| 24 | M | 20 13 7 | 4 | 1 58 | 19 16 | 17 45 | 3 55 | 10 35 |
| 25 | Tu | 20 17 3 | 5 | 2 57 | 19 1 | 0 m 46 | 4 36 | 16 3 |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | |
| 1 | 16 | 16 | 0 8 | 9 | 19 N 55 | 0 N 48 | 18 N 53 | 0 8 27 | 21 N 45 |
| 4 | 16 | 15 | 0 | 9 | 19 55 | 0 48 | 18 57 | 0 27 | 21 45 |
| 7 | 16 | 15 | 0 | 9 | 19 55 | 0 48 | 19 1 | 0 26 | 21 46 |
| 10 | 16 | 14 | 0 | 9 | 19 55 | 0 49 | 19 5 | 0 25 | 21 47 |
| 13 | 16 | 14 | 0 | 9 | 19 55 | 0 49 | 19 9 | 0 25 | 21 48 |
| 16 | 16 | 13 | 0 | 9 | 19 56 | 0 49 | 19 13 | 0 24 | 21 49 |
| 19 | 16 | 12 | 0 | 9 | 19 56 | 0 49 | 19 16 | 0 24 | 21 51 |
| 22 | 16 | 12 | 0 | 9 | 19 57 | 0 49 | 19 20 | 0 23 | 21 53 |
| 25 | 16 | 11 | 0 | 9 | 19 57 | 0 50 | 19 23 | 0 22 | 21 55 |
| 28 | 16 | 10 | 0 | 9 | 19 58 | 0 50 | 19 26 | 0 22 | 21 57 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----------------------|--------------|--------------------|-----------|--------------|--------------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 20 44 39 | 12 ^m 9 30 | 17 S 10 | 25 ^w 24 | 2 S 56 | 23 S 58 | 29 ^h 31 |
| 2 | W | 20 48 36 | 13 10 23 | 16 53 | 7 ^m 15 | 1 59 | 20 24 | 29 ^h 31 |
| 3 | Th | 20 52 32 | 14 11 14 | 16 35 | 19 10 | 0 56 | 15 58 | 29 31 |
| 4 | F | 20 56 29 | 15 12 5 | 16 17 | 1 ^m 10 | 0 N 10 | 10 54 | 29 30 |
| 5 | S | 21 0 25 | 16 12 54 | 15 59 | 13 19 | 1 17 | 5 23 | 29 30 |
| 6 | S | 21 4 22 | 17 13 41 | 15 41 | 25 37 | 2 21 | 0 N 25 | 29 30 |
| 7 | M | 21 8 19 | 18 14 27 | 15 23 | 8 ^r 7 | 3 19 | 6 16 | 29 ^h 30 |
| 8 | Tu | 21 12 15 | 19 15 12 | 15 4 | 20 52 | 4 9 | 11 59 | 29 30 |
| 9 | W | 21 16 12 | 20 15 55 | 14 45 | 3 ^h 54 | 4 47 | 17 19 | 29 31 |
| 10 | Th | 21 20 8 | 21 16 36 | 14 25 | 17 15 | 5 10 | 21 57 | 29 31 |
| 11 | F | 21 24 5 | 22 17 15 | 14 6 | 0 ^h 58 | 5 17 | 25 33 | 29 31 |
| 12 | S | 21 28 1 | 23 17 53 | 13 46 | 15 4 | 5 6 | 27 41 | 29 31 |
| 13 | S | 21 31 58 | 24 18 29 | 13 26 | 29 29 | 4 35 | 28 2 | 29 32 |
| 14 | M | 21 35 54 | 25 19 4 | 13 6 | 14 ^h 13 | 3 45 | 26 26 | 29 32 |
| 15 | Tu | 21 39 51 | 26 19 37 | 12 45 | 29 9 | 2 40 | 22 57 | 29 33 |
| 16 | W | 21 43 48 | 27 20 8 | 12 24 | 14 ^h 9 | 1 23 | 17 56 | 29 34 |
| 17 | Th | 21 47 44 | 28 20 38 | 12 4 | 29 6 | 0 1 | 11 49 | 29 34 |
| 18 | F | 21 51 41 | 29 21 6 | 11 43 | 13 ^m 51 | 1 S 20 | 5 8 | 29 35 |
| 19 | S | 21 55 37 | 0 ^h 21 32 | 11 21 | 28 17 | 2 34 | 1 S 40 | 29 36 |
| 20 | S | 21 59 34 | 1 21 57 | 11 0 | 12 ^h 19 | 3 37 | 8 12 | 29 37 |
| 21 | M | 22 3 30 | 2 22 20 | 10 38 | 25 55 | 4 25 | 14 8 | 29 37 |
| 22 | Tu | 22 7 27 | 3 22 43 | 10 17 | 9 ^m 5 | 4 58 | 19 14 | 29 38 |
| 23 | W | 22 11 23 | 4 23 3 | 9 55 | 21 51 | 5 15 | 23 18 | 29 39 |
| 24 | Th | 22 15 20 | 5 23 22 | 9 33 | 4 ^h 7 | 5 16 | 26 12 | 29 40 |
| 25 | F | 22 19 17 | 6 23 40 | 9 10 | 16 27 | 5 3 | 27 48 | 29 41 |
| 26 | S | 22 23 13 | 7 23 56 | 8 48 | 28 24 | 4 38 | 28 5 | 29 42 |
| 27 | S | 22 27 10 | 8 24 11 | 8 26 | 10 ^w 15 | 4 0 | 27 3 | 29 42 |
| 28 | M | 22 31 6 | 9 24 25 | 8 3 | 22 3 | 3 13 | 24 49 | 29 43 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 0 S 25 | 0 S 11 | 4 N 47 | 18 S 40 | 0 S 24 | 22 S 24 | 0 × 27 |
| 4 | 0 23 | 0 N 45 | 4 35 | 18 53 | 0 47 | 22 6 | 0 18 |
| 7 | 0 20 | 1 41 | 4 22 | 19 4 | 1 7 | 21 38 | 0 8 |
| 10 | 0 17 | 2 36 | 4 8 | 19 13 | 1 24 | 20 57 | 29 ^m 59 |
| 13 | 0 15 | 3 31 | 3 55 | 19 19 | 1 39 | 20 5 | 29 49 |
| 16 | 0 12 | 4 25 | 3 40 | 19 22 | 1 51 | 19 1 | 29 40 |
| 19 | 0 10 | 5 19 | 3 25 | 19 22 | 2 0 | 17 44 | 29 30 |
| 22 | 0 7 | 6 13 | 3 9 | 19 18 | 2 6 | 16 16 | 29 20 |
| 25 | 0 5 | 7 6 | 2 53 | 19 10 | 2 8 | 14 34 | 29 11 |
| 28 | 0 3 | 7 58 | 2 36 | 18 58 | 2 6 | 12 41 | 29 1 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|------------------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 8 Ω 38 | 11 ♀ 34 | 0 ♄ 30 | 27 ♄ 38 | 19 ♄ 48 | | | Δ | | | * | | |
| 2 | 8 ♄ 33 | 11 ♄ 34 | 1 15 | 28 25 | 21 10 | | | | ♄ | Δ | | | |
| 3 | 8 28 | 11 34 | 2 0 | 29 13 | 22 33 | | ♄ | | | | | | |
| 4 | 8 24 | 11 33 | 2 45 | 0 ♄ 22 | 23 57 | | | □ | | | | * | |
| 5 | 8 19 | 11 33 | 3 29 | 0 53 | 25 22 | | | | | □ | | | |
| 6 | 8 14 | 11 33 | 4 14 | 1 44 | 26 48 | ♄ ♄ ♄ | | * | | | | | * |
| 7 | 8 9 | 11 D 34 | 4 59 | 2 35 | 28 14 | | | | Δ | * | | □ | |
| 8 | 8 4 | 11 34 | 5 43 | 3 27 | 29 41 | ♄ Δ ♄ | * | | | | ♄ | | |
| 9 | 7 59 | 11 34 | 6 28 | 4 20 | 1 ^m 9 | | | | □ | | | Δ | □ |
| 10 | 7 55 | 11 35 | 7 13 | 5 14 | 2 39 | | □ | | | | | | |
| 11 | 7 50 | 11 36 | 7 57 | 6 9 | 4 10 | ♄ Δ ♄ | | ♄ | * | | | | Δ |
| 12 | 7 45 | 11 37 | 8 42 | 7 5 | 5 41 | | | | | | ♄ | * | |
| 13 | 7 40 | 11 39 | 9 26 | 8 0 | 7 13 | ♄ ♄ ♄ | Δ | | | | | □ | ♄ |
| 14 | 7 36 | 11 41 | 10 11 | 8 57 | 8 47 | | | | | | | | |
| 15 | 7 31 | 11 43 | 10 55 | 9 53 | 10 21 | | | * | | | | | |
| 16 | 7 27 | 11 45 | 11 39 | 10 50 | 11 56 | ♄ Δ ♄ | | | ♄ | * | Δ | | ♄ |
| 17 | 7 22 | 11 47 | 12 23 | 11 47 | 13 32 | | ♄ | □ | | | | | |
| 18 | 7 17 | 11 49 | 13 8 | 12 45 | 15 9 | ☉ □ ♄ | | | | □ | | Δ | |
| 19 | 7 13 | 11 51 | 13 52 | 13 44 | 16 46 | | | Δ | | | | | |
| 20 | 7 9 | 11 54 | 14 36 | 14 43 | 18 25 | ♄ ♄ ♄ | | | * | Δ | ♄ | □ | |
| 21 | 7 5 | 11 57 | 15 20 | 15 42 | 20 5 | | | | | | | | Δ |
| 22 | 7 1 | 12 0 | 16 4 | 16 41 | 21 46 | | Δ | | | □ | | | |
| 23 | 6 57 | 12 4 | 16 48 | 17 40 | 23 28 | | | | | | | * | □ |
| 24 | 6 53 | 12 8 | 17 32 | 18 41 | 25 10 | | □ | ♄ | Δ | | | | |
| 25 | 6 49 | 12 12 | 18 16 | 19 43 | 26 53 | | | | | ♄ | Δ | | |
| 26 | 6 46 | 12 16 | 19 0 | 20 44 | 28 37 | | | | | | | | * |
| 27 | 6 42 | 12 20 | 19 43 | 21 46 | 0 × 22 | ♄ ♄ ♄ | * | | | | | | |
| 28 | 6 38 | 12 24 | 20 27 | 22 47 | 2 8 | | | | | | | □ | ♄ |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 08 | 9 | 0 N50 | 19 N27 | 0 N21 | 21 N38 |
| 4 | 16 | 8 | 0 | 9 | 0 50 | 19 30 | 0 21 | 22 |
| 7 | 16 | 8 | 0 | 9 | 0 50 | 19 32 | 0 20 | 22 |
| 10 | 16 | 7 | 0 | 9 | 0 50 | 19 35 | 0 20 | 22 |
| 13 | 16 | 6 | 0 | 9 | 0 50 | 19 37 | 0 19 | 22 |
| 16 | 16 | 5 | 0 | 9 | 0 50 | 19 39 | 0 19 | 22 |
| 19 | 16 | 4 | 0 | 9 | 0 51 | 19 40 | 0 18 | 22 |
| 22 | 16 | 4 | 0 | 9 | 0 51 | 19 42 | 0 18 | 22 |
| 25 | 16 | 3 | 0 | 8 | 0 51 | 19 43 | 0 17 | 22 |
| 28 | 16 | 2 | 0 | 8 | 0 51 | 19 44 | 0 17 | 22 |
| 31 | 16 | 1 | 0 | 8 | 0 51 | 19 44 | 0 16 | 22 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 22 35 3 | 10 × 24 36 | 7 S 40 | 3 m 53 | 2 S 17 | 21 S 31 | 29 44 |
| 2 | W | 22 38 59 | 11 24 46 | 7 17 15 | 47 | 1 15 | 17 18 | 29 45 |
| 3 | Th | 22 42 56 | 12 24 55 | 6 54 27 | 50 | 0 9 | 12 22 | 29 47 |
| 4 | F | 22 46 52 | 13 25 1 | 6 31 10 | × 2 | 0 N 59 | 6 55 | 29 48 |
| 5 | S | 22 50 49 | 14 25 6 | 6 8 22 | 26 | 2 4 | 1 6 | 29 49 |
| 6 | S | 22 54 45 | 15 25 9 | 5 45 5 | r 2 | 3 5 | 4 N 49 | 29 51 |
| 7 | M | 22 58 42 | 16 25 9 | 5 22 17 | 51 | 3 57 | 10 39 | 29 52 |
| 8 | Tu | 23 2 39 | 17 25 8 | 4 58 0 | 54 | 4 38 | 16 8 | 29 53 |
| 9 | W | 23 6 35 | 18 25 4 | 4 35 14 | 11 | 5 5 | 20 57 | 29 55 |
| 10 | Th | 23 10 32 | 19 24 59 | 4 12 27 | 42 | 5 15 | 24 47 | 29 56 |
| 11 | F | 23 14 28 | 20 24 51 | 3 48 11 | □ 26 | 5 8 | 27 15 | 29 57 |
| 12 | S | 23 18 25 | 21 24 40 | 3 24 25 | 24 | 4 43 | 28 6 | 0 □ |
| 13 | S | 23 22 21 | 22 24 28 | 3 1 9 | ☾ 35 | 4 0 | 27 6 | 0 |
| 14 | M | 23 26 18 | 23 24 13 | 2 37 23 | 56 | 3 2 | 24 20 | 0 |
| 15 | Tu | 23 30 14 | 24 23 56 | 2 14 8 | Ω 26 | 1 52 | 19 58 | 0 |
| 16 | W | 23 34 11 | 25 23 37 | 1 50 22 | 59 | 0 34 | 14 24 | 0 |
| 17 | Th | 23 38 8 | 26 23 16 | 1 26 7 | ☾ 32 | 0 S 46 | 8 8 | 0 |
| 18 | F | 23 42 4 | 27 22 53 | 1 3 21 | 58 | 2 2 | 1 19 | 0 |
| 19 | S | 23 46 1 | 28 22 27 | 0 39 6 | △ 12 | 3 9 | 5 S 21 | 0 |
| 20 | S | 23 49 57 | 29 22 0 | 0 15 20 | 9 | 4 4 | 11 38 | 0 |
| 21 | M | 23 53 54 | 0 r 21 30 | 0 N 9 | 3 m 44 | 4 43 | 17 12 | 0 |
| 22 | Tu | 23 57 50 | 1 20 59 | 0 32 16 | 56 | 5 6 | 21 47 | 0 |
| 23 | W | 0 1 47 | 2 20 26 | 0 56 29 | 47 | 5 12 | 25 12 | 0 |
| 24 | Th | 0 5 43 | 3 19 51 | 1 20 12 | † 16 | 5 4 | 27 18 | 0 |
| 25 | F | 0 9 40 | 4 19 14 | 1 43 24 | 29 | 4 41 | 28 2 | 0 |
| 26 | S | 0 13 37 | 5 18 36 | 2 7 6 | w 28 | 4 7 | 27 25 | 0 |
| 27 | S | 0 17 33 | 6 17 56 | 2 30 18 | 20 | 3 23 | 25 33 | 0 |
| 28 | M | 0 21 30 | 7 17 14 | 2 54 0 | m 9 | 2 30 | 23 35 | 0 |
| 29 | Tu | 0 25 26 | 8 16 30 | 3 17 11 | 59 | 1 30 | 18 39 | 0 |
| 30 | W | 0 29 23 | 9 15 45 | 3 40 23 | 57 | 0 26 | 13 53 | 0 |
| 31 | Th | 0 33 19 | 10 14 57 | 4 4 6 | × 6 | 0 N 40 | 8 40 | 0 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 S 2 | 8 N 15 | 2 N 31 | 18 S 53 | 2 S 6 | 12 S 1 | 28 49 |
| 4 | 0 N 1 | 9 6 | 2 15 | 18 34 | 1 57 | 9 51 | 28 49 |
| 7 | 0 8 | 9 56 | 1 59 | 18 12 | 1 45 | 7 30 | 28 39 |
| 10 | 0 5 | 10 45 | 1 43 | 17 45 | 1 28 | 4 58 | 28 30 |
| 13 | 0 7 | 11 34 | 1 27 | 17 14 | 1 6 | 2 18 | 28 20 |
| 16 | 0 10 | 12 21 | 1 12 | 16 38 | 0 39 | 0 N 30 | 28 11 |
| 19 | 0 12 | 13 7 | 0 57 | 15 58 | 0 7 | 3 20 | 28 1 |
| 22 | 0 14 | 13 52 | 0 42 | 15 18 | 0 N 28 | 6 7 | 27 52 |
| 25 | 0 16 | 14 36 | 0 28 | 14 25 | 1 4 | 8 45 | 27 42 |
| 28 | 0 18 | 15 18 | 0 14 | 13 33 | 1 40 | 11 8 | 27 33 |
| 31 | 0 20 | 16 0 | 0 1 | 12 37 | 2 18 | 13 9 | 27 23 |

| D
M | h
Long. | u
Long. | δ
Long. | ♀
Long. | ♂
Long. |
|--------|------------|------------|------------|------------|------------|
| | ° / | ° / | ° / | ° / | ° / |
| 1 | 6 2 34 | 12 11 29 | 21 7 11 | 23 47 49 | 3 4 56 |
| 2 | 6 2 31 | 12 34 | 21 55 | 24 52 | 5 45 |
| 3 | 6 27 | 12 39 | 22 39 | 25 55 | 7 35 |
| 4 | 6 24 | 12 44 | 23 22 | 26 58 | 9 26 |
| 5 | 6 21 | 12 49 | 24 6 | 28 11 | 11 18 |
| 6 | 6 17 | 12 54 | 24 50 | 29 41 | 13 10 |
| 7 | 6 14 | 13 0 | 25 34 | 0 8 | 15 4 |
| 8 | 6 11 | 13 6 | 26 17 | 1 13 | 16 59 |
| 9 | 6 8 | 13 12 | 27 1 | 2 17 | 18 55 |
| 10 | 6 5 | 13 18 | 27 44 | 3 22 | 20 51 |
| 11 | 6 2 | 13 24 | 28 27 | 4 27 | 22 48 |
| 12 | 6 0 | 13 30 | 29 11 | 5 32 | 24 46 |
| 13 | 5 57 | 13 37 | 29 54 | 6 37 | 26 46 |
| 14 | 5 55 | 13 44 | 0 37 | 7 43 | 28 45 |
| 15 | 5 52 | 13 51 | 1 20 | 8 48 | 0 45 |
| 16 | 5 50 | 13 58 | 2 4 9 | 54 2 | 44 |
| 17 | 5 47 | 14 5 | 2 47 | 11 0 | 4 43 |
| 18 | 5 45 | 14 12 | 3 30 | 12 6 | 6 42 |
| 19 | 5 43 | 14 19 | 4 13 | 13 12 | 8 40 |
| 20 | 5 41 | 14 27 | 4 56 | 14 19 | 10 37 |
| 21 | 5 39 | 14 35 | 5 39 | 15 26 | 12 32 |
| 22 | 5 38 | 14 43 | 6 22 | 16 33 | 14 25 |
| 23 | 5 36 | 14 51 | 7 5 | 17 40 | 16 16 |
| 24 | 5 35 | 14 59 | 7 48 | 18 47 | 18 4 |
| 25 | 5 33 | 15 7 | 8 31 | 19 54 | 19 50 |
| 26 | 5 32 | 15 15 | 9 14 | 21 1 | 21 39 |
| 27 | 5 31 | 15 23 | 9 56 | 22 9 | 23 10 |
| 28 | 5 29 | 15 32 | 10 39 | 23 17 | 24 11 |
| 29 | 5 28 | 15 41 | 11 21 | 24 25 | 26 9 |
| 30 | 5 27 | 15 50 | 12 3 | 25 33 | 27 32 |
| 31 | 5 26 | 15 59 | 12 46 | 26 41 | 28 52 |

APRIL XXX DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 2 | 08 | 8 | 0N51 | 19N44 | 0816 | 2251 |
| 4 | 16 | 1 | 0 | 8 | 0 | 51 | 0 | 16 |
| 7 | 16 | 0 | 0 | 8 | 0 | 51 | 0 | 15 |
| 10 | 15 | 59 | 0 | 8 | 0 | 51 | 0 | 15 |
| 13 | 15 | 58 | 0 | 8 | 0 | 51 | 0 | 14 |
| 16 | 15 | 58 | 0 | 8 | 0 | 51 | 0 | 14 |
| 19 | 15 | 57 | 0 | 8 | 0 | 51 | 0 | 14 |
| 22 | 15 | 56 | 0 | 8 | 0 | 51 | 0 | 13 |
| 25 | 15 | 55 | 0 | 8 | 0 | 51 | 0 | 13 |
| 28 | 15 | 55 | 0 | 8 | 0 | 51 | 0 | 13 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 0 37 16 | 11 14 8 | 4N27 | 18 29 | 1N45 | 28 57 | 03 43 |
| 2 | S | 0 41 12 | 12 13 17 | 4 | 50 17 8 | 2 46 | 2N59 | 0 4 |
| 3 | S | 0 45 9 | 13 12 23 | 5 | 13 14 4 | 3 40 | 8 56 | 0 40 |
| 4 | M | 0 49 6 | 14 11 28 | 5 | 36 27 17 | 4 24 | 14 36 | 0 5 |
| 5 | Tu | 0 53 2 | 15 10 30 | 5 | 59 10 5 46 | 4 53 | 19 42 | 0 5 |
| 6 | W | 0 56 59 | 16 9 31 | 6 | 22 24 26 | 5 7 | 23 51 | 0 5 |
| 7 | Th | 1 0 55 | 17 8 29 | 6 | 44 8 17 | 5 3 | 26 41 | 0 5 |
| 8 | F | 1 4 52 | 18 7 25 | 7 | 7 22 16 | 4 41 | 27 54 | 1 1 |
| 9 | S | 1 8 48 | 19 6 18 | 7 | 25 6 20 | 4 2 | 27 20 | 1 1 |
| 10 | S | 1 12 45 | 20 5 1 | 7 | 52 20 27 | 3 8 | 25 0 | 1 1 |
| 11 | M | 1 16 41 | 21 3 58 | 8 | 14 4 38 | 2 2 | 21 7 | 1 1 |
| 12 | Tu | 1 20 38 | 22 2 45 | 8 | 36 18 45 | 0 50 | 16 0 | 1 1 |
| 13 | W | 1 24 35 | 23 1 30 | 8 | 57 2 54 | 0 10 | 2 | 1 1 |
| 14 | Th | 1 28 31 | 24 0 12 | 9 | 19 16 58 | 1 40 | 3 36 | 1 1 |
| 15 | F | 1 32 28 | 24 58 52 | 9 | 41 0 59 | 2 47 | 28 57 | 1 1 |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 21 | 16 N 13 | 0 S 3 | 12 S 18 | 3 N 22 | 13 N 44 | 27 = 20 |
| 4 | 0 22 | 16 53 | 0 16 | 11 17 | 2 47 | 15 10 | 27 10 |
| 7 | 0 23 | 17 31 | 0 28 | 10 14 | 3 3 | 16 7 | 27 1 |
| 10 | 0 25 | 18 7 | 0 39 | 9 7 | 3 8 | 16 33 | 26 51 |
| 13 | 0 27 | 18 42 | 0 49 | 7 58 | 3 1 | 16 27 | 26 41 |
| 16 | 0 29 | 19 16 | 0 59 | 6 47 | 2 41 | 15 52 | 26 32 |
| 19 | 0 30 | 19 48 | 1 8 | 5 34 | 2 7 | 14 50 | 26 23 |
| 22 | 0 32 | 20 18 | 1 15 | 4 18 | 1 25 | 13 30 | 26 13 |
| 25 | 0 33 | 20 46 | 1 23 | 3 2 | 0 35 | 12 1 | 26 3 |
| 28 | 0 34 | 21 13 | 1 29 | 1 44 | 0 S 17 | 10 34 | 25 54 |

| D
M | h
Long. | u
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | ☾ |
|--------|------------|------------|------------|------------|------------|------------------|---|
| 1 | 5 Q 26 16 | 8 13 8 | 28 27 = 49 | 0 8 5 | | | |
| 2 | 5 R 26 16 | 17 14 | 10 28 57 | 1 12 | | | |
| 3 | 5 26 16 | 26 14 | 53 0 * 5 | 2 12 | | | |
| 4 | 5 26 16 | 36 15 | 35 1 14 | 3 5 | ♀ ☐ h | | |
| 5 | 5 26 16 | 46 16 | 18 2 23 | 3 52 | | | |
| 6 | 5 24 16 | 56 17 | 1 3 32 | 4 34 | | | |
| 7 | 5 24 17 | 6 17 | 43 4 41 | 5 9 | ☉ * ♄ | | |
| 8 | 5 D 24 17 | 16 18 | 25 5 50 | 5 36 | ♀ ☐ h | | |
| 9 | 5 25 17 | 26 29 | 8 6 59 | 5 57 | | | |
| 10 | 5 25 17 | 36 19 | 50 8 8 | 6 10 | | | |
| 11 | 5 25 17 | 46 20 | 32 9 18 | 6 17 | | | |
| 12 | 5 26 17 | 56 21 | 14 10 27 | 6 20 | | | |
| 13 | 5 27 18 | 6 21 | 56 11 37 | 6 R 14 | | | |
| 14 | 5 28 18 | 17 22 | 38 12 46 | 6 4 | | | |
| 15 | 5 29 18 | 28 23 | 20 13 56 | 5 49 | | | |
| 16 | 5 30 18 | 39 24 | 1 15 6 | 5 28 | ♀ ☐ h | | |
| 17 | 5 31 18 | 50 24 | 43 16 15 | 5 2 | | | |
| 18 | 5 32 19 | 1 25 | 25 17 24 | 4 31 | | | |
| 19 | 5 33 19 | 12 26 | 6 18 34 | 3 57 | | | |
| 20 | 5 34 19 | 23 26 | 48 19 44 | 3 20 | ♀ ☐ h | | |

MAY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 52 | 0 8 | 20 N 30 | 0 N 51 | 19 N 37 | 0 8 11 | 22 N 59 |
| 4 | 15 | 52 | 0 8 | 20 32 | 0 51 | 19 35 | 0 11 | 23 2 |
| 7 | 15 | 51 | 0 8 | 20 34 | 0 51 | 19 33 | 0 10 | 23 4 |
| 10 | 15 | 51 | 0 8 | 20 36 | 0 51 | 19 30 | 0 10 | 23 7 |
| 13 | 15 | 50 | 0 8 | 20 38 | 0 51 | 19 27 | 0 10 | 23 9 |
| 16 | 15 | 49 | 0 8 | 20 40 | 0 51 | 19 25 | 0 10 | 23 11 |
| 19 | 15 | 49 | 0 8 | 20 42 | 0 51 | 19 21 | 0 10 | 23 12 |
| 22 | 15 | 48 | 0 8 | 20 44 | 0 51 | 19 18 | 0 9 | 23 14 |
| 25 | 15 | 48 | 0 8 | 20 46 | 0 51 | 19 15 | 0 9 | 23 16 |
| 28 | 15 | 47 | 0 8 | 20 48 | 0 51 | 19 11 | 0 9 | 23 17 |
| 31 | 15 | 47 | 0 8 | 20 50 | 0 51 | 19 7 | 0 9 | 23 18 |
| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ♄
Long.
° ' " | ♄
Lat.
° ' " | ♄
Declin.
° ' " | ♃
Long.
° ' " |
| 1 | S | 2 35 33 | 10 33 30 | 15 N 0 | 22 7 35 | 4 N 11 | 12 N 40 | 2 11 13 |
| 2 | M | 2 39 29 | 11 31 42 | 15 18 6 | 8 9 | 4 43 | 18 2 | 2 16 |
| 3 | Tu | 2 43 26 | 12 29 51 | 15 36 20 | 2 | 4 59 | 22 34 | 2 20 |
| 4 | W | 2 47 22 | 13 27 59 | 15 54 4 | 11 9 | 4 58 | 25 52 | 2 23 |
| 5 | Th | 2 51 19 | 14 26 5 | 16 11 18 | 27 | 4 38 | 27 34 | 2 26 |
| 6 | F | 2 55 15 | 15 24 9 | 16 28 2 | 25 48 | 4 1 | 27 26 | 2 30 |
| 7 | S | 2 59 12 | 16 22 11 | 16 45 17 | 9 | 3 8 | 25 28 | 2 33 |
| 8 | S | 3 3 8 | 17 20 11 | 17 1 1 | 12 25 | 2 4 | 21 53 | 2 36 |
| 9 | M | 3 7 5 | 18 18 10 | 17 16 15 | 35 | 0 52 | 17 1 | 2 40 |
| 10 | Tu | 3 11 2 | 19 16 6 | 17 33 29 | 36 | 0 8 22 | 11 17 | 2 43 |
| 11 | W | 3 14 58 | 20 14 1 | 17 49 18 | 29 | 1 34 | 5 3 | 2 46 |
| 12 | Th | 3 18 55 | 21 11 54 | 18 4 27 | 14 | 2 39 | 1 S 20 | 2 50 |
| 13 | F | 3 22 51 | 22 9 45 | 18 19 10 | 49 | 3 35 | 7 35 | 2 53 |
| 14 | S | 3 26 48 | 23 7 35 | 18 34 24 | 15 | 4 18 | 13 24 | 2 57 |
| 15 | S | 3 30 44 | 24 5 23 | 18 49 7 | m 30 | 4 46 | 18 32 | 3 1 |
| 16 | M | 3 34 41 | 25 8 9 | 19 3 20 | 32 | 4 59 | 22 42 | 3 4 |
| 17 | Tu | 3 38 37 | 26 0 54 | 19 16 3 | 20 | 4 57 | 25 41 | 3 8 |
| 18 | W | 3 42 34 | 26 58 38 | 19 30 15 | 54 | 4 40 | 27 21 | 3 10 |
| 19 | Th | 3 46 31 | 27 56 20 | 19 43 28 | 14 | 4 10 | 27 36 | 3 14 |
| 20 | F | 3 50 27 | 28 54 1 | 19 56 10 | w 21 | 3 29 | 26 31 | 3 17 |
| 21 | S | 3 54 24 | 29 51 41 | 20 8 22 | 18 | 2 39 | 24 14 | 3 20 |
| 22 | S | 3 58 20 | 0 11 49 | 20 20 20 | 4 m 9 | 1 43 | 20 54 | 3 23 |
| 23 | M | 4 2 17 | 1 46 58 | 20 32 15 | 57 | 0 42 | 16 44 | 3 27 |
| 24 | Tu | 4 6 13 | 2 44 35 | 20 44 27 | 48 | 0 N 21 | 11 56 | 3 30 |
| 25 | W | 4 10 10 | 3 42 11 | 20 55 9 | x 47 | 1 23 | 6 37 | 3 33 |
| 26 | Th | 4 14 6 | 4 39 47 | 21 5 21 | 59 | 2 23 | 0 59 | 3 37 |
| 27 | F | 4 18 3 | 5 37 21 | 21 16 4 | r 31 | 3 18 | 4 N 49 | 3 40 |
| 28 | S | 4 22 0 | 6 34 55 | 21 26 17 | 25 | 4 4 | 10 36 | 3 43 |
| 29 | S | 4 25 56 | 7 32 27 | 21 35 0 | 8 45 | 4 38 | 16 5 | 3 47 |
| 30 | M | 4 29 53 | 8 29 59 | 21 45 14 | 31 | 4 58 | 20 57 | 3 50 |
| 31 | Tu | 4 33 49 | 9 27 29 | 21 53 28 | 41 | 5 1 | 24 46 | 3 53 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 37 | 21 N 39 | 1 S 36 | 0 S 25 | 1 S 4 | 9 N 20 | 25 ^m 45 |
| 4 | 0 38 | 22 2 | 1 40 | 0 N 55 | 1 48 | 8 25 | 25 35 |
| 7 | 0 39 | 22 24 | 1 43 | 2 15 | 2 24 | 7 52 | 25 26 |
| 10 | 0 40 | 22 44 | 1 46 | 3 35 | 2 51 | 7 42 | 25 16 |
| 13 | 0 42 | 23 2 | 1 49 | 4 55 | 3 11 | 7 53 | 25 7 |
| 16 | 0 44 | 23 18 | 1 50 | 6 14 | 3 21 | 8 24 | 24 57 |
| 19 | 0 45 | 23 32 | 1 51 | 7 33 | 3 25 | 9 13 | 24 48 |
| 22 | 0 46 | 23 45 | 1 51 | 8 50 | 3 22 | 10 16 | 24 38 |
| 25 | 0 47 | 23 55 | 1 50 | 10 7 | 3 12 | 11 31 | 24 29 |
| 28 | 0 49 | 24 4 | 1 49 | 11 21 | 2 57 | 12 57 | 24 19 |
| 31 | 0 50 | 24 11 | 1 47 | 12 33 | 2 37 | 14 31 | 24 10 |

| D
M | ♄ | ♃ | ♂ | ♀ | ♅ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♃ | ♂ | ♀ | ♅ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 5 Ω 57 | 21 Π 30 | 4 Π 24 | 2 γ 36 | 26 γ 51 | ♀ * ♄ | | | * | | | | ♂ |
| 2 | 6 0 | 21 42 | 5 5 | 3 47 | 26 R 33 | | ♂ | | □ | | | | |
| 3 | 6 3 | 21 54 | 5 46 | 4 58 | 26 19 | | | | | | | | |
| 4 | 6 6 | 22 6 | 6 27 | 6 8 | 26 11 | ♀ Δ ♄ | | ♂ | * | | ♂ | * | |
| 5 | 6 9 | 22 18 | 7 8 | 7 19 | 26 7 | ♀ * ♂ | | | | ♂ | | | * |
| 6 | 6 12 | 22 30 | 7 49 | 8 30 | 26 D 7 | | | | | | | □ | |
| 7 | 6 15 | 22 43 | 8 30 | 9 41 | 26 11 | | * | | | | | | |
| 8 | 6 18 | 22 55 | 9 11 | 10 52 | 26 19 | | | * | ♂ | | | | □ |
| 9 | 6 21 | 23 7 | 9 52 | 12 3 | 26 34 | | □ | | | | * | Δ | |
| 10 | 6 24 | 23 20 | 10 33 | 13 14 | 26 53 | | | □ | | * | | | Δ |
| 11 | 6 27 | 23 32 | 11 14 | 14 25 | 27 16 | | Δ | | | | □ | | |
| 12 | 6 31 | 23 45 | 11 55 | 15 36 | 27 43 | | | Δ | | □ | | | |
| 13 | 6 35 | 23 57 | 12 35 | 16 47 | 28 41 | | | | * | | Δ | ♂ | |
| 14 | 6 39 | 24 10 | 13 16 | 17 58 | 28 49 | ♀ ∠ ♄ | | | | Δ | | | ♂ |
| 15 | 6 43 | 24 22 | 13 56 | 19 9 | 29 28 | | | | □ | | | | |
| 16 | 6 47 | 24 35 | 14 37 | 20 20 | 0 8 11 | | ♂ | | | | | | |
| 17 | 6 51 | 24 48 | 15 17 | 21 31 | 0 58 | | | ♂ | Δ | | | | |
| 18 | 6 55 | 25 1 | 15 58 | 22 42 | 1 49 | | | | | | ♂ | | |
| 19 | 6 59 | 25 14 | 16 38 | 23 53 | 2 43 | | | | | ♂ | | Δ | Δ |
| 20 | 7 3 | 25 27 | 17 19 | 25 4 | 3 40 | ♀ * ♄ | | | | | | | |
| 21 | 7 7 | 25 40 | 17 59 | 26 16 | 4 40 | | | | | | | □ | |
| 22 | 7 11 | 25 53 | 18 40 | 27 28 | 5 43 | | Δ | Δ | ♂ | | | | □ |
| 23 | 7 15 | 26 6 | 19 21 | 28 39 | 6 49 | ♅ □ ♄ | | | | | Δ | | |
| 24 | 7 20 | 26 19 | 20 1 | 29 51 | 7 59 | | □ | □ | | Δ | | * | |
| 25 | 7 25 | 26 32 | 20 41 | 1 8 2 | 9 11 | ☉ ♂ ♄ | | | | | | | * |
| 26 | 7 30 | 26 45 | 21 22 | 2 14 | 10 26 | | | | | | □ | □ | |
| 27 | 7 35 | 26 58 | 22 2 | 3 25 | 11 43 | ♅ ∠ ♄ | * | * | Δ | | | | |
| 28 | 7 40 | 27 11 | 22 42 | 4 37 | 13 3 | ♂ ∠ ♄ | | | | | * | | |
| 29 | 7 45 | 27 24 | 23 22 | 5 48 | 14 26 | ☉ * ♄ | | | | * | | ♂ | |
| 30 | 7 50 | 27 38 | 24 2 | 7 0 | 15 52 | | | | □ | | | | ♂ |
| 31 | 7 55 | 27 51 | 24 43 | 8 11 | 17 21 | ♀ □ ♄ | | ♂ | | | | | |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 8 | 20 N 51 | 0 N 51 | 19 N 6 | 0 S 9 | 23 N 18 |
| 4 | 15 | 48 | 0 8 | 20 53 | 0 51 | 19 1 | 0 8 | 23 19 |
| 7 | 15 | 47 | 0 8 | 20 55 | 0 51 | 18 57 | 0 8 | 23 20 |
| 10 | 15 | 47 | 0 8 | 20 57 | 0 51 | 18 53 | 0 8 | 23 20 |
| 13 | 15 | 47 | 0 8 | 20 59 | 0 51 | 18 48 | 0 8 | 23 20 |
| 16 | 15 | 46 | 0 8 | 21 0 | 0 51 | 18 43 | 0 7 | 23 20 |
| 19 | 15 | 46 | 0 8 | 21 2 | 0 51 | 18 38 | 0 7 | 23 20 |
| 22 | 15 | 46 | 0 8 | 21 4 | 0 51 | 18 33 | 0 7 | 23 19 |
| 25 | 15 | 46 | 0 8 | 21 6 | 0 52 | 18 28 | 0 6 | 23 19 |
| 28 | 15 | 46 | 0 8 | 21 7 | 0 52 | 18 22 | 0 6 | 23 18 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 4 37 46 | 10 ♀ 24 59 | 22 N 2 | 13 ♀ 10 | 4 N 44 | 27 N 5 | 3 ♀ 57 |
| 2 | Th | 4 41 42 | 11 22 28 | 22 10 27 | 51 | 4 8 | 27 35 | 4 1 |
| 3 | F | 4 45 39 | 12 19 55 | 22 18 12 | ♄ 37 | 3 16 | 26 7 | 4 4 |
| 4 | S | 4 49 35 | 13 17 22 | 22 25 27 | 21 | 2 11 | 22 51 | 4 8 |
| 5 | S | 4 53 32 | 14 14 47 | 22 32 11 | ♊ 55 | 0 57 | 18 9 | 4 12 |
| 6 | M | 4 57 29 | 15 12 12 | 22 38 26 | 15 | 0 S 19 | 12 29 | 4 16 |
| 7 | Tu | 5 1 25 | 16 9 35 | 22 44 10 | ♋ 20 | 1 33 | 6 16 | 4 19 |
| 8 | W | 5 5 22 | 17 6 57 | 22 50 24 | 10 | 2 39 | 0 S 7 | 4 23 |
| 9 | Th | 5 9 18 | 18 4 18 | 22 55 7 | ♌ 44 | 3 36 | 6 23 | 4 27 |
| 10 | F | 5 13 15 | 19 1 38 | 23 0 21 | 4 | 4 20 | 12 14 | 4 30 |
| 11 | S | 5 17 11 | 19 58 57 | 23 5 4 | ♍ 11 | 4 49 | 17 27 | 4 34 |
| 12 | S | 5 21 8 | 20 56 15 | 23 9 17 | 5 | 5 3 | 21 47 | 4 38 |
| 13 | M | 5 25 4 | 21 53 32 | 23 18 29 | 47 | 5 1 | 25 1 | 4 42 |
| 14 | Tu | 5 29 1 | 22 50 49 | 23 16 12 | ♎ 17 | 4 45 | 27 0 | 4 46 |
| 15 | W | 5 32 58 | 23 48 5 | 23 19 24 | 36 | 4 16 | 27 37 | 4 49 |
| 16 | Th | 5 36 54 | 24 45 20 | 23 21 6 | ♏ 45 | 3 36 | 26 53 | 4 53 |
| 17 | F | 5 40 51 | 25 42 35 | 23 23 18 | 45 | 2 46 | 24 53 | 4 57 |
| 18 | S | 5 44 47 | 26 39 49 | 23 25 0 | ♐ 37 | 1 50 | 21 49 | 5 0 |
| 19 | S | 5 48 44 | 27 37 3 | 23 26 12 | 25 | 0 49 | 17 52 | 5 4 |
| 20 | M | 5 52 40 | 28 34 17 | 23 27 24 | 13 | 0 N 15 | 13 14 | 5 7 |
| 21 | Tu | 5 56 37 | 29 31 31 | 23 28 6 | ♑ 3 | 1 18 | 8 6 | 5 10 |
| 22 | W | 6 0 34 | 0 ♄ 28 45 | 23 28 18 | 2 | 2 18 | 2 37 | 5 14 |
| 23 | Th | 6 4 30 | 1 25 58 | 23 27 0 | ♒ 14 | 3 14 | 3 N 3 | 5 17 |
| 24 | F | 6 8 27 | 2 23 12 | 23 26 12 | 44 | 4 1 | 8 44 | 5 20 |
| 25 | S | 6 12 23 | 3 20 26 | 23 25 25 | 37 | 4 38 | 14 13 | 5 23 |
| 26 | S | 6 16 20 | 4 17 39 | 23 23 8 | ♓ 56 | 5 2 | 19 15 | 5 26 |
| 27 | M | 6 20 16 | 5 14 53 | 23 21 22 | 44 | 5 9 | 23 26 | 5 29 |
| 28 | Tu | 6 24 13 | 6 12 6 | 23 19 6 | ♈ 53 | 4 57 | 26 23 | 5 32 |
| 29 | W | 6 28 9 | 7 9 20 | 23 16 21 | 37 | 4 26 | 27 38 | 5 35 |
| 30 | Th | 6 32 6 | 8 6 33 | 23 13 6 | ♉ 32 | 3 37 | 26 55 | 5 38 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 50 | 24 N 13 | 1 S 46 | 12 N 57 | 2 S 29 | 15 N 8 | 24 ^m 7 |
| 4 | 0 51 | 24 17 | 1 44 | 14 6 | 2 3 | 16 43 | 23 57 |
| 7 | 0 53 | 24 20 | 1 41 | 15 12 | 1 34 | 18 24 | 23 48 |
| 10 | 0 54 | 24 21 | 1 37 | 16 15 | 1 1 | 20 2 | 23 38 |
| 13 | 0 55 | 24 19 | 1 32 | 17 15 | 0 29 | 21 33 | 23 28 |
| 16 | 0 56 | 24 16 | 1 26 | 18 11 | 0 N 4 | 22 52 | 23 19 |
| 19 | 0 56 | 24 12 | 1 20 | 19 3 | 0 35 | 23 52 | 23 9 |
| 22 | 0 57 | 24 5 | 1 14 | 19 51 | 1 19 | 24 31 | 23 0 |
| 25 | 0 58 | 23 57 | 1 8 | 20 34 | 1 37 | 24 41 | 22 50 |
| 28 | 0 59 | 23 47 | 1 1 | 21 13 | 1 49 | 24 32 | 22 41 |

[illegible]

JULY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|----------|----|-----------|---------|---------|---------|----------|---------|---------|
| | Semidia. | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | |
| 1 | 15 | 45 | 08 | 8 | 21 N 9 | 0 N 52 | 18 N 17 | 08 5 | 23 N 17 |
| 4 | 15 | 45 | 0 | 8 | 21 11 | 0 52 | 18 11 | 0 5 | 23 15 |
| 7 | 15 | 45 | 0 | 7 | 21 12 | 0 52 | 18 5 | 0 5 | 23 14 |
| 10 | 15 | 45 | 0 | 7 | 21 14 | 0 52 | 17 59 | 0 5 | 23 12 |
| 18 | 15 | 45 | 0 | 7 | 21 15 | 0 52 | 17 53 | 0 5 | 23 10 |
| 16 | 15 | 46 | 0 | 7 | 21 17 | 0 52 | 17 47 | 0 4 | 23 9 |
| 19 | 15 | 46 | 0 | 7 | 21 18 | 0 52 | 17 41 | 0 4 | 23 6 |
| 22 | 15 | 46 | 0 | 7 | 21 19 | 0 52 | 17 35 | 0 4 | 23 3 |
| 25 | 15 | 46 | 0 | 7 | 21 21 | 0 52 | 17 28 | 0 4 | 23 0 |
| 28 | 15 | 47 | 0 | 7 | 21 22 | 0 52 | 17 22 | 0 3 | 22 58 |
| 31 | 15 | 47 | 0 | 7 | 21 23 | 0 52 | 17 15 | 0 3 | 22 55 |

| D
M | D
W | Universal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ☽
Long. |
|--------|--------|--------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 6 36 8 | 9 52 8 47 | 23 N 9 | 11 25 32 | 2 N 32 | 24 N 14 | 5 41 |
| 2 | M | 6 39 59 | 10 1 0 | 23 5 | 6 2 39 | 1 17 19 | 52 | 5 44 |
| 3 | Tu | 6 43 56 | 10 58 13 | 23 0 | 21 33 | 0 8 4 | 14 17 | 5 47 |
| 4 | W | 6 47 52 | 11 55 40 | 23 55 | 6 10 | 1 22 7 | 59 | 5 50 |
| 5 | Th | 6 51 48 | 12 52 32 | 23 50 | 20 28 | 2 34 1 | 25 | 5 53 |
| 6 | F | 6 55 45 | 13 49 51 | 23 44 | 4 23 | 3 35 6 | 8 2 | 5 56 |
| 7 | M | 7 59 42 | 14 47 42 | 23 38 | 17 58 | 4 22 11 | 5 | 5 59 |
| 8 | Tu | 7 3 38 | 15 44 15 | 23 32 | 1 12 | 4 54 16 | 29 | 6 2 |
| 9 | W | 7 7 35 | 16 41 28 | 23 26 | 14 8 | 5 10 21 | 1 | 6 4 |
| 10 | Th | 7 11 32 | 17 38 40 | 23 17 | 26 48 | 5 10 24 | 29 | 6 7 |
| 11 | F | 7 15 29 | 18 35 51 | 23 10 | 0 12 | 5 58 26 | 44 | 6 10 |
| 12 | M | 7 19 26 | 19 33 5 | 23 2 | 0 12 | 5 58 27 | 39 | 6 13 |
| 13 | Tu | 7 23 23 | 20 30 58 | 22 52 | 0 12 | 5 58 27 | 13 | 6 15 |
| 14 | W | 7 27 20 | 21 28 1 | 22 44 | 0 12 | 5 58 25 | 31 | 6 18 |
| 15 | Th | 7 31 17 | 22 25 14 | 22 36 | 0 12 | 5 58 22 | 41 | 6 21 |
| 16 | F | 7 35 14 | 23 22 27 | 22 28 | 0 12 | 5 58 18 | 55 | 6 24 |
| 17 | M | 7 39 11 | 24 19 40 | 22 20 | 0 12 | 5 58 14 | 26 | 6 26 |
| 18 | Tu | 7 43 8 | 25 16 53 | 22 12 | 0 12 | 5 58 10 | 24 | 6 29 |
| 19 | W | 7 47 5 | 26 14 6 | 22 4 | 0 12 | 5 58 6 | 0 | 6 31 |
| 20 | Th | 7 51 2 | 27 11 19 | 21 56 | 1 N 35 | 5 58 1 | 34 | 6 34 |
| 21 | F | 7 54 54 | 28 8 11 | 20 33 | 9 0 | 5 57 7 | 12 | 6 36 |
| 22 | M | 7 58 50 | 29 5 28 | 20 21 | 21 30 | 4 37 12 | 39 | 6 39 |
| 23 | Tu | 8 2 47 | 0 2 46 | 20 9 | 4 20 | 5 4 17 | 44 | 6 41 |
| 24 | W | 8 6 43 | 1 0 6 | 19 57 | 17 35 | 5 16 22 | 8 | 6 44 |
| 25 | Th | 8 10 40 | 1 57 26 | 19 44 | 1 16 | 5 10 25 | 29 | 6 46 |
| 26 | F | 8 14 36 | 2 54 47 | | | | 24 | 6 49 |
| 27 | M | 8 18 33 | 3 52 9 | | | | 31 | 6 51 |
| 28 | Tu | 8 22 30 | 4 49 32 | | | | 40 | 6 53 |
| 29 | W | 8 26 28 | 5 46 56 | | | | 57 | 6 55 |
| 30 | Th | 8 30 25 | 6 44 21 | | | | 44 | 6 57 |
| 31 | F | 8 34 19 | 7 41 47 | | | | 30 | 6 59 |

JULY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 1 N 0 | 23 N 35 | 0 S 55 | 21 N 46 | 1 N 51 | 23 N 58 | 22 31 |
| 4 | 1 1 | 23 22 | 0 47 | 22 14 | 1 53 | 23 3 | 22 21 |
| 7 | 1 1 | 23 7 | 0 40 | 22 36 | 1 48 | 21 51 | 22 12 |
| 10 | 1 2 | 22 50 | 0 32 | 22 53 | 1 40 | 20 27 | 22 2 |
| 13 | 1 2 | 22 32 | 0 25 | 23 3 | 1 26 | 18 53 | 21 53 |
| 16 | 1 3 | 22 12 | 0 17 | 23 8 | 1 7 | 17 13 | 21 43 |
| 19 | 1 4 | 21 51 | 0 9 | 23 7 | 0 44 | 15 28 | 21 34 |
| 22 | 1 5 | 21 28 | 0 N 1 | 23 0 | 0 16 | 13 42 | 21 24 |
| 25 | 1 5 | 21 4 | 0 6 | 22 46 | 0 S 10 | 11 56 | 21 14 |
| 28 | 1 6 | 20 39 | 0 14 | 22 27 | 0 41 | 10 12 | 21 5 |
| 31 | 1 6 | 20 12 | 0 21 | 22 2 | 1 15 | 8 33 | 20 55 |

| D
M | h | ♄ | ♅ | ♆ | ♇ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | |
| 1 | 11 Ω 6 | 4♄52 | 15♄11 | 15 ♀ 27 | 18♄48 | | | | | | | ♊ | ♊ |
| 2 | 11 13 | 5 6 | 15 50 | 16 40 | 20 48 | ♇ ∠ ♈ | | * | ♊ | | | | ♊ |
| 3 | 11 20 | 5 20 | 16 29 | 17 52 | 22 47 | | | * | | | | * | |
| 4 | 11 27 | 5 34 | 17 8 | 19 5 | 24 44 | | * | ☐ | | * | | * | ☐ |
| 5 | 11 34 | 5 47 | 17 47 | 20 17 | 26 40 | | | | | | * | ☐ | |
| 6 | 11 41 | 6 1 | 18 26 | 21 30 | 28 34 | | | Δ | | ☐ | | | * |
| 7 | 11 48 | 6 15 | 19 5 | 22 42 | 0 Ω 26 | | ☐ | | * | | ☐ | Δ | |
| 8 | 11 55 | 6 28 | 19 44 | 23 54 | 2 16 | | | | | Δ | | | ☐ |
| 9 | 12 3 | 6 42 | 20 23 | 25 7 | 4 4 | | Δ | | ☐ | | | | |
| 10 | 12 10 | 6 55 | 21 2 | 26 21 | 5 50 | ♇ * ♈ | | | | | Δ | | |
| 11 | 12 17 | 7 9 | 21 41 | 27 34 | 7 33 | ♇ ∠ ♈ | | ♊ | Δ | | | | Δ |
| 12 | 12 25 | 7 22 | 22 20 | 28 47 | 9 15 | | | | | | | | |
| 13 | 12 32 | 7 35 | 22 59 | 0♄ 0 | 10 55 | | | | | ♊ | | ♊ | |
| 14 | 12 39 | 7 49 | 23 38 | 1 12 | 12 33 | ♇ ☉ ♈ | | | | | | ♊ | |
| 15 | 12 47 | 8 2 | 24 17 | 2 25 | 14 9 | | ♊ | | | | | ♊ | |
| 16 | 12 54 | 8 16 | 24 56 | 3 38 | 15 42 | | | Δ | ♊ | | | | |
| 17 | 13 1 | 8 29 | 25 34 | 4 51 | 17 13 | | | | | | | | ♊ |
| 18 | 13 9 | 8 43 | 26 13 | 6 4 | 18 42 | | | ☐ | | Δ | | Δ | |
| 19 | 13 16 | 8 56 | 26 52 | 7 17 | 20 10 | | | | | | | | |
| 20 | 13 24 | 9 10 | 27 31 | 8 30 | 21 36 | | Δ | | | | Δ | | |
| 21 | 13 31 | 9 23 | 28 10 | 9 44 | 23 0 | ☉ ☉ ♊ | | * | Δ | ☐ | | ☐ | Δ |
| 22 | 13 38 | 9 36 | 28 48 | 10 57 | 24 22 | ♇ ∠ ♈ | | | | | * | | |
| 23 | 13 45 | 9 50 | 29 27 | 12 10 | 25 42 | | ☐ | | | * | ☐ | * | |
| 24 | 13 53 | 10 3 | 0 Ω 6 | 13 23 | 27 0 | | | * | ☐ | | * | * | ☐ |
| 25 | 14 0 | 10 16 | 0 44 | 14 36 | 28 15 | | * | ♊ | | | * | * | ☐ |
| 26 | 14 8 | 10 29 | 1 23 | 15 50 | 29 28 | | | | * | | | | |
| 27 | 14 16 | 10 42 | 2 2 | 17 3 | 0 ♄ 39 | | | | | | | | * |
| 28 | 14 23 | 10 55 | 2 40 | 18 17 | 1 47 | | | | | ♊ | | ♊ | |
| 29 | 14 31 | 11 8 | 3 19 | 19 80 | 2 53 | | ♊ | * | | | ♊ | ♊ | |
| 30 | 14 39 | 11 21 | 3 57 | 20 43 | 3 56 | ☉ * ♈ | | | ♊ | | | | ♊ |
| 31 | 14 47 | 11 34 | 4 36 | 21 57 | 4 58 | ♇ ∠ ♈ | | ☐ | | | | | ♊ |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 7 | 21 N 23 | 0 N 53 | 17 N 13 | 0 S 3 | 22 N 51 |
| 4 | 15 | 48 | 0 7 | 21 24 | 0 53 | 17 6 | 0 2 | 22 50 |
| 7 | 15 | 49 | 0 7 | 21 25 | 0 54 | 17 0 | 0 2 | 22 47 |
| 10 | 15 | 49 | 0 7 | 21 26 | 0 54 | 16 53 | 0 2 | 22 44 |
| 13 | 15 | 50 | 0 7 | 21 27 | 0 54 | 16 46 | 0 2 | 22 40 |
| 16 | 15 | 50 | 0 7 | 21 27 | 0 55 | 16 40 | 0 2 | 22 36 |
| 19 | 15 | 51 | 0 7 | 21 28 | 0 55 | 16 33 | 0 1 | 22 33 |
| 22 | 15 | 51 | 0 7 | 21 29 | 0 55 | 16 26 | 0 1 | 22 29 |
| 25 | 15 | 52 | 0 7 | 21 29 | 0 56 | 16 20 | 0 1 | 22 25 |
| 28 | 15 | 53 | 0 7 | 21 30 | 0 56 | 16 13 | 0 0 | 22 21 |
| 31 | 15 | 53 | 0 7 | 21 30 | 0 56 | 16 6 | 0 0 | 22 17 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 8 38 16 | 8 23 39 13 | 18 N 7 | 15 11 | 2 S 14 | 3 N 47 | 7 11 |
| 2 | Tu | 8 42 12 | 9 36 40 | 17 52 | 29 43 | 3 22 | 2 S 58 | 7 3 |
| 3 | W | 8 46 9 | 10 34 8 | 17 36 | 13 50 | 4 15 | 9 23 | 7 5 |
| 4 | Th | 8 50 6 | 11 31 37 | 17 20 | 27 31 | 4 53 | 15 9 | 7 7 |
| 5 | F | 8 54 2 | 12 29 7 | 17 4 | 10 48 | 5 13 | 20 2 | 7 9 |
| 6 | S | 8 57 59 | 13 26 8 | 16 46 | 23 41 | 5 17 | 23 45 | 7 11 |
| 7 | S | 9 1 55 | 14 24 8 | 16 31 | 6 16 | 5 5 | 26 23 | 7 13 |
| 8 | M | 9 5 52 | 15 21 39 | 16 15 | 18 34 | 4 40 | 27 37 | 7 14 |
| 9 | Tu | 9 9 48 | 16 19 12 | 15 57 | 0 40 | 4 2 | 27 30 | 7 16 |
| 10 | W | 9 13 45 | 17 16 46 | 15 40 | 12 38 | 3 14 | 26 5 | 7 18 |
| 11 | Th | 9 17 41 | 18 14 20 | 15 23 | 24 29 | 2 19 | 23 31 | 7 20 |
| 12 | F | 9 21 38 | 19 11 56 | 15 5 | 6 18 | 1 17 | 19 58 | 7 21 |
| 13 | S | 9 25 35 | 20 9 32 | 14 47 | 18 6 | 0 12 | 15 37 | 7 23 |
| 14 | S | 9 29 31 | 21 7 10 | 14 28 | 29 55 | 0 N 53 | 10 41 | 7 25 |
| 15 | M | 9 33 28 | 22 4 50 | 14 10 | 11 49 | 1 57 | 5 20 | 7 26 |
| 16 | Tu | 9 37 24 | 23 2 30 | 13 51 | 23 40 | 2 50 | 0 N 14 | 7 27 |
| 17 | W | 9 41 21 | 24 0 12 | 13 32 | 5 58 | 3 47 | 5 51 | 7 29 |
| 18 | Th | 9 45 17 | 24 57 56 | 13 18 | 18 19 | 4 29 | 11 20 | 7 30 |
| 19 | F | 9 49 14 | 25 55 42 | 12 53 | 0 53 | 5 0 | 16 28 | 7 31 |
| 20 | S | 9 53 10 | 26 53 29 | 12 34 | 13 45 | 5 13 | 20 59 | 7 32 |
| 21 | S | 9 57 7 | 27 51 17 | 12 14 | 26 57 | 5 15 | 24 36 | 7 34 |
| 22 | M | 10 1 4 | 28 49 8 | 11 54 | 10 30 | 4 58 | 26 57 | 7 35 |
| 23 | Tu | 10 5 0 | 29 47 0 | 11 33 | 24 28 | 4 23 | 27 43 | 7 36 |
| 24 | W | 10 8 57 | 0 44 54 | 11 13 | 8 48 | 3 31 | 26 40 | 7 37 |
| 25 | Th | 10 12 53 | 1 42 50 | 10 52 | 23 29 | 2 23 | 23 46 | 7 38 |
| 26 | F | 10 16 50 | 2 40 47 | 10 32 | 8 25 | 1 5 | 19 14 | 7 39 |
| 27 | S | 10 20 46 | 3 38 47 | 10 11 | 23 30 | 0 S 18 | 13 25 | 7 40 |
| 28 | S | 10 24 43 | 4 36 47 | 9 50 | 8 35 | 1 40 | 6 49 | 7 41 |
| 29 | M | 10 28 39 | 5 34 50 | 9 28 | 23 32 | 2 54 | 0 S 5 | 7 41 |
| 30 | Tu | 10 32 36 | 6 32 54 | 9 7 | 8 11 | 3 55 | 6 51 | 7 42 |
| 31 | W | 10 36 32 | 7 30 59 | 8 45 | 22 27 | 4 40 | 13 4 | 7 43 |

AUGUST XXXI DAYS.

| Mars. | | Venus. | | Mercury. | | Moon's Node. | | | | | | | |
|----------|---------|----------|----------|----------|-----------------------|--------------|---|---|---|---|---|---|---|
| Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | | |
| ° | ' | ° | ' | ° | ' | ° | | | | | | | |
| 1 N 6 | 20 N 8 | 0 S 24 | 21 N 52 | 1 S 28 | 8 N 1 | 20 m 53 | | | | | | | |
| 1 7 | 19 34 | 0 31 | 21 19 | 2 1 | 6 31 | 20 43 | | | | | | | |
| 1 7 | 19 5 | 0 37 | 20 40 | 2 36 | 5 12 | 20 34 | | | | | | | |
| 1 8 | 18 34 | 0 44 | 19 56 | 3 10 | 4 6 | 20 24 | | | | | | | |
| 1 8 | 18 2 | 0 50 | 19 7 | 3 43 | 3 19 | 20 14 | | | | | | | |
| 1 9 | 17 29 | 0 56 | 18 13 | 4 10 | 2 53 | 19 5 | | | | | | | |
| 1 9 | 16 55 | 1 1 | 17 14 | 4 30 | 2 53 | 19 55 | | | | | | | |
| 1 9 | 16 20 | 1 6 | 16 11 | 4 38 | 3 23 | 19 46 | | | | | | | |
| 1 10 | 15 45 | 1 10 | 15 4 | 4 32 | 4 21 | 19 36 | | | | | | | |
| 1 10 | 15 8 | 1 14 | 13 53 | 4 3 | 5 43 | 19 27 | | | | | | | |
| 1 10 | 14 30 | 1 17 | 12 38 | 3 29 | 7 17 | 19 17 | | | | | | | |
| h | z | ♂ | ♀ | ♂ | Mutual Lunar Aspects. | | | | | | | | |
| Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
| ° | ' | ° | ' | ° | | | | | | | | | |
| 14 25 4 | 11 54 7 | 5 2 14 | 23 23 10 | 5 m 55 | | | | * | | | | | |
| 15 2 12 | 0 5 | 5 22 24 | 24 6 49 | ♀ ☐ ♃ | | | | | | * | * | | |
| 15 9 12 | 12 6 | 31 25 37 | 7 41 | | ☿ ☐ ♃ | * | Δ | * | ☐ | | | ☐ | |
| 15 17 12 | 25 7 | 10 26 50 | 8 30 | ♂ * ♃ | | | | | | | | ☐ | * |
| 15 24 12 | 38 7 | 48 28 3 | 9 15 | | | ☐ | | ☐ | Δ | ☐ | | | * |
| 15 32 12 | 50 8 | 27 29 17 | 9 57 | | | | | | | | | | Δ |
| 15 39 13 | 3 9 | 5 0 23 | 10 35 | | | | ♂ | | | | | | ☐ |
| 15 46 13 | 15 9 | 44 1 44 | 11 9 | | | Δ | | | | | | | |
| 15 54 13 | 28 10 | 22 2 58 | 11 39 | ☉ ☿ ♈ | | | | | | | | | |
| 16 2 13 | 40 11 | 1 4 12 | 12 4 | | | | | | | | | | Δ |
| 16 10 13 | 53 11 | 39 5 26 | 12 24 | | | | | | | | | | |
| 16 18 14 | 5 12 | 17 6 39 | 12 40 | | | | | Δ | | | | | ♂ |
| 16 26 14 | 17 12 | 56 7 53 | 12 51 | ♀ * ♃ | ♂ | | | ♂ | | | ♂ | | ♂ |
| 16 34 14 | 29 13 | 34 9 7 | 12 57 | | | | | | | | | | |
| 16 42 14 | 41 14 | 13 10 21 | 12 58 | | | | ☐ | | Δ | | | | ♂ |
| 16 50 14 | 53 14 | 51 11 35 | 12 53 | | | | | | | | | | |
| 16 58 15 | 5 15 | 29 12 49 | 12 43 | | | | * | | | | | | |
| 17 6 15 | 17 16 | 7 14 3 | 12 28 | | | | | Δ | | Δ | ☐ | Δ | |
| 17 13 15 | 29 16 | 46 15 17 | 12 6 | | | Δ | | | | | | | |
| 17 21 15 | 41 17 | 24 16 31 | 11 38 | ♂ ☉ ♈ | | | | | ☐ | * | ☐ | ☐ | Δ |
| 17 28 15 | 53 18 | 2 17 45 | 11 4 | ♀ ☉ ♈ | | ☐ | | | | | | | |
| 17 36 16 | 4 18 | 41 18 59 | 10 26 | ♀ ☉ ♂ | | * | ♂ | | | | | | ☐ |
| 17 43 16 | 16 19 | 19 20 13 | 9 43 | | | * | | * | | * | * | | |
| 17 51 16 | 27 19 | 57 21 27 | 8 55 | | | | | | | | | | * |
| 17 58 16 | 39 20 | 36 23 42 | 8 4 | | | | | | | ♂ | | | |
| 18 6 16 | 50 21 | 14 23 57 | 7 10 | ♀ ☐ ♃ | | | | | | | | | |
| 18 13 17 | 1 21 | 52 25 11 | 6 15 | | | | | ♂ | | ♂ | ♂ | | |
| 18 21 17 | 12 22 | 30 26 25 | 5 20 | ♀ ☉ ☉ | ♂ | ☐ | | | | | | | ♂ |
| 18 29 17 | 23 23 | 8 27 40 | 4 26 | | | | | | * | | | | |
| 18 36 17 | 34 23 | 47 28 54 | 3 32 | | | Δ | | | | | | | |
| 18 43 17 | 45 24 | 25 0 m 8 | 3 40 | ☉ ☐ ♃ | | | | * | ☐ | * | | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 7 | 21 N 30 | 0 N 57 | 16 N 4 | 0 N 1 | 22 N 12 |
| 4 | 15 | 54 | 0 7 | 21 30 | 0 57 | 15 57 | 0 1 | 22 12 |
| 7 | 15 | 54 | 0 7 | 21 31 | 0 57 | 15 51 | 0 1 | 22 13 |
| 10 | 15 | 55 | 0 7 | 21 31 | 0 58 | 15 44 | 0 2 | 22 14 |
| 13 | 15 | 56 | 0 7 | 21 31 | 0 58 | 15 38 | 0 2 | 22 15 |
| 16 | 15 | 56 | 0 7 | 21 31 | 0 58 | 15 32 | 0 2 | 21 5 |
| 19 | 15 | 57 | 0 7 | 21 31 | 0 58 | 15 26 | 0 3 | 21 5 |
| 22 | 15 | 58 | 0 7 | 21 31 | 0 59 | 15 19 | 0 3 | 21 6 |
| 25 | 15 | 59 | 0 7 | 21 30 | 0 59 | 15 14 | 0 3 | 21 6 |
| 28 | 16 | 0 | 0 7 | 21 30 | 0 59 | 15 8 | 0 4 | 21 6 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Lat. |
|--------|--------|-------------------|----------------------|-------------|--------------------|-----------|-------------|-----------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | Th | 10 40 29 | 8 ^m 29 6 | 8 N 24 | 6 ^m 17 | 5 S 6 | 18 S 27 | 7 C 0 |
| 2 | F | 10 44 26 | 9 27 15 | 8 2 | 19 40 | 5 16 | 22 44 | 7 4 |
| 3 | S | 10 48 22 | 10 25 24 | 7 40 | 2 1 37 | 5 9 | 25 44 | 7 4 |
| 4 | S | 10 52 19 | 11 23 36 | 7 16 | 15 11 | 4 46 | 27 23 | 7 4 |
| 5 | M | 10 56 15 | 12 21 49 | 6 56 | 27 27 | 4 12 | 27 38 | 7 6 |
| 6 | Tu | 11 0 12 | 13 20 3 | 6 33 | 9 ^m 30 | 3 26 | 26 33 | 7 6 |
| 7 | W | 11 4 8 | 14 18 19 | 6 11 | 21 23 | 2 32 | 24 16 | 7 6 |
| 8 | Th | 11 8 5 | 15 16 36 | 5 48 | 3 ^m 11 | 1 33 | 20 58 | 7 6 |
| 9 | F | 11 12 1 | 16 14 55 | 5 26 | 14 59 | 0 29 | 16 49 | 7 6 |
| 10 | S | 11 15 58 | 17 13 15 | 5 8 | 26 49 | 0 N 36 | 12 1 | 7 4 |
| 11 | S | 11 19 55 | 18 11 38 | 4 40 | 8 ^m 44 | 1 40 | 6 46 | 7 6 |
| 12 | M | 11 23 51 | 19 10 2 | 4 17 | 20 47 | 2 40 | 1 12 | 7 6 |
| 13 | Tu | 11 27 48 | 20 8 28 | 3 55 | 2 ^m 59 | 3 33 | 4 N 27 | 7 6 |
| 14 | W | 11 31 44 | 21 6 56 | 3 32 | 15 22 | 4 17 | 10 0 | 7 6 |
| 15 | Th | 11 35 41 | 22 5 26 | 3 8 | 27 57 | 4 49 | 15 15 | 7 6 |
| 16 | F | 11 39 37 | 23 3 58 | 2 45 | 10 ^m 44 | 5 8 | 19 56 | 7 6 |
| 17 | S | 11 43 34 | 24 2 32 | 2 22 | 23 46 | 5 11 | 23 45 | 7 6 |
| 18 | S | 11 47 30 | 25 1 8 | 1 59 | 7 ^m 11 | 4 58 | 26 24 | 7 6 |
| 19 | M | 11 51 27 | 25 59 47 | 1 36 | 20 34 | 4 28 | 27 35 | 7 6 |
| 20 | Tu | 11 55 24 | 26 58 28 | 1 12 | 4 ^m 22 | 3 42 | 27 5 | 7 6 |
| 21 | W | 11 59 20 | 27 57 11 | 0 49 | 18 28 | 2 42 | 24 52 | 7 6 |
| 22 | Th | 12 3 17 | 28 55 56 | 0 25 | 2 ^m 50 | 1 31 | 21 1 | 7 6 |
| 23 | F | 12 7 13 | 29 54 44 | 0 2 | 17 26 | 0 13 | 15 49 | 7 6 |
| 24 | S | 12 11 10 | 0 ^m 53 34 | 0 S 21 | 2 ^m 11 | 1 S 7 | 9 40 | 7 6 |
| 25 | S | 12 15 6 | 1 52 26 | 0 45 | 17 0 | 2 23 | 2 57 | 7 6 |
| 26 | M | 12 19 3 | 2 51 20 | 1 8 | 1 ^m 45 | 3 28 | 3 S 52 | 7 6 |
| 27 | Tu | 12 22 59 | 3 50 16 | 1 32 | 16 19 | 4 19 | 10 24 | 7 6 |
| 28 | W | 12 26 56 | 4 49 14 | 1 55 | 0 ^m 35 | 4 52 | 16 14 | 7 6 |
| 29 | Th | 12 30 53 | 5 48 14 | 2 18 | 14 27 | 5 7 | 21 4 | 7 6 |
| 30 | F | 12 34 49 | 6 47 16 | 2 42 | 27 53 | 5 5 | 24 39 | 7 6 |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Decl. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 1 | 0 S 7 | 21 N 30 | 1 N 0 | 15 N 2 | 0 N 4 | 21 N 3 |
| 4 | 16 | 2 | 0 7 | 21 29 | 1 0 | 14 57 | 0 4 | 21 2 |
| 7 | 16 | 3 | 0 7 | 21 29 | 1 0 | 14 51 | 0 5 | 21 1 |
| 10 | 16 | 4 | 0 7 | 21 28 | 1 1 | 14 46 | 0 5 | 21 1 |
| 13 | 16 | 5 | 0 6 | 21 27 | 1 1 | 14 41 | 0 6 | 21 1 |
| 16 | 16 | 5 | 0 6 | 21 27 | 1 2 | 14 36 | 0 6 | 21 1 |
| 19 | 16 | 6 | 0 6 | 21 26 | 1 2 | 14 32 | 0 7 | 21 1 |
| 22 | 16 | 7 | 0 6 | 21 25 | 1 3 | 14 28 | 0 7 | 21 1 |
| 25 | 16 | 8 | 0 6 | 21 24 | 1 4 | 14 24 | 0 7 | 21 1 |
| 28 | 16 | 9 | 0 6 | 21 23 | 1 4 | 14 20 | 0 8 | 21 1 |
| 31 | 16 | 9 | 0 6 | 21 22 | 1 5 | 14 16 | 0 8 | 21 1 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ☾
Lat. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|-----------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | S | 12 38 46 | 7 46 20 | 3 S 5 | 10 1 53 | 4 S 47 | 26 S 49 | 7 1 |
| 2 | S | 12 42 42 | 8 45 25 | 3 29 23 | 30 | 4 15 27 | 32 | 7 1 |
| 3 | M | 12 46 39 | 9 44 33 | 3 52 5 | 47 | 3 32 26 | 51 | 7 1 |
| 4 | Tu | 12 50 35 | 10 43 42 | 4 15 17 | 50 | 2 40 24 | 55 | 7 1 |
| 5 | W | 12 54 32 | 11 42 53 | 4 38 29 | 42 | 1 42 21 | 54 | 7 1 |
| 6 | Th | 12 58 29 | 12 42 5 | 5 1 11 | 30 | 0 41 18 | 0 | 7 1 |
| 7 | F | 13 2 25 | 13 41 20 | 5 24 23 | 18 | 0 N 23 13 | 24 | 7 1 |
| 8 | S | 13 6 22 | 14 40 36 | 5 47 5 | 11 | 1 26 8 | 17 | 7 1 |
| 9 | S | 13 10 18 | 15 39 54 | 6 10 17 | 13 | 2 25 2 | 49 | 7 1 |
| 10 | M | 13 14 15 | 16 39 14 | 6 33 29 | 27 | 3 19 2 | N 49 | 7 1 |
| 11 | Tu | 13 18 11 | 17 38 36 | 6 56 11 | 54 | 4 4 8 | 27 | 7 1 |
| 12 | W | 13 22 8 | 18 38 0 | 7 18 24 | 35 | 4 38 13 | 50 | 7 1 |
| 13 | Th | 13 26 4 | 19 37 26 | 7 41 7 | 30 | 4 58 18 | 43 | 7 1 |
| 14 | F | 13 30 1 | 20 36 54 | 8 3 20 | 38 | 5 3 22 | 48 | 7 1 |
| 15 | S | 13 33 57 | 21 36 25 | 8 26 3 | 59 | 4 52 25 | 44 | 7 1 |
| 16 | S | 13 37 54 | 22 35 57 | 8 48 17 | 30 | 4 24 27 | 16 | 7 1 |
| 17 | M | 13 41 51 | 23 35 32 | 9 10 1 | 11 | 3 41 27 | 9 | 7 1 |
| 18 | Tu | 13 45 47 | 24 35 10 | 9 32 15 | 1 | 2 45 25 | 21 | 7 1 |
| 19 | W | 13 49 44 | 25 34 49 | 9 54 29 | 0 | 1 38 21 | 54 | 7 1 |
| 20 | Th | 13 53 40 | 26 34 31 | 10 16 13 | Ω 7 | 0 25 17 | 17 | 7 1 |
| 21 | F | 13 57 37 | 27 34 15 | 10 37 27 | 23 | 0 S 51 11 | 36 | 7 1 |
| 22 | S | 14 1 33 | 28 34 1 | 10 58 11 | 44 | 2 4 5 | 16 | 7 1 |
| 23 | S | 14 5 29 | 29 33 50 | 11 20 26 | 7 | 3 9 18 | 21 | 7 1 |
| 24 | M | 14 9 26 | 0 m 33 40 | 11 41 10 | Δ 29 | 4 1 7 | 51 | 7 1 |
| 25 | Tu | 14 13 23 | 1 33 33 | 12 2 24 | 43 | 4 35 13 | 54 | 7 1 |
| 26 | W | 14 17 19 | 2 33 28 | 12 22 8 | m 44 | 4 58 19 | 7 | 7 1 |
| 27 | Th | 14 21 16 | 3 33 25 | 12 43 22 | 27 | 5 0 23 | 14 | 7 1 |
| 28 | F | 14 25 13 | 4 33 23 | 13 3 5 | 49 | 4 45 25 | 58 | 6 5 |
| 29 | S | 14 29 9 | 5 33 24 | 13 23 18 | 48 | 4 16 27 | 14 | 6 5 |
| 30 | S | 14 33 6 | 6 33 26 | 13 43 1 | w 24 | 3 34 27 | 1 | 6 5 |
| 31 | M | 14 37 2 | 7 33 29 | 14 3 13 | 42 | 2 44 35 | 28 | 6 5 |

OCTOBER XXXI DAYS.

| D
M | Mars | | Venus. | | Mercury. | | Moon's
Node. | | | |
|--------|------------|------------|------------|------------|------------|------------------|-----------------|-----------|-----|-----|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | |
| 1 | 1 N 12 | 7 N 23 | 1 S 20 | 2 S 16 | 1 N 46 | 1 N 30 | 17 m 38 | | | |
| 4 | 1 12 | 6 39 | 1 15 | 3 47 | 1 35 | 0 S 49 | 17 29 | | | |
| 7 | 1 12 | 5 55 | 1 11 | 5 17 | 1 21 | 3 7 | 17 19 | | | |
| 10 | 1 12 | 5 10 | 1 7 | 6 47 | 1 5 | 5 23 | 17 9 | | | |
| 13 | 1 12 | 4 25 | 1 2 | 8 15 | 0 46 | 7 37 | 17 0 | | | |
| 16 | 1 11 | 3 40 | 0 57 | 9 41 | 0 26 | 9 46 | 16 50 | | | |
| 19 | 1 11 | 2 55 | 0 53 | 11 6 | 0 6 | 11 49 | 16 41 | | | |
| 22 | 1 11 | 2 10 | 0 48 | 12 23 | 0 S 14 | 13 47 | 16 31 | | | |
| 25 | 1 11 | 1 24 | 0 41 | 13 43 | 0 34 | 15 37 | 16 22 | | | |
| 28 | 1 11 | 0 39 | 0 34 | 15 4 | 0 54 | 17 21 | 16 12 | | | |
| 31 | 1 11 | 0 S 6 | 0 28 | 16 17 | 1 13 | 18 57 | 16 3 | | | |
| D
M | h
Long. | u
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspts. | Lunar | | ta. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | ☉ | ☿ | ♂ | ♀ |
| 1 | 22 Ω 17 | 22 ♄ 33 | 14 ♀ 3 | 8 ♄ 42 | 0 ♄ 18 | ☉ Δ ♄ | * ☿ | | | * |
| 2 | 22 23 | 22 41 | 14 41 | 9 57 | 2 6 | | | ♂ | | |
| 3 | 22 29 | 22 48 | 15 19 | 11 12 | 3 54 | | ☐ | | | ☐ |
| 4 | 22 35 | 22 55 | 15 57 | 12 27 | 5 42 | | | | | ☐ |
| 5 | 22 41 | 23 2 | 16 35 | 13 42 | 7 29 | ☿ Δ ♄ | | | | |
| 6 | 22 47 | 23 8 | 17 13 | 14 57 | | | Δ | | | Δ Δ |
| 7 | 22 53 | 23 14 | 17 50 | 16 12 | | | | ♂ | | |
| 8 | 22 59 | 23 20 | 18 28 | 17 27 | | | ☐ | | | |
| 9 | 23 5 | 23 26 | 19 6 | 18 42 | | | | | ♂ | |
| 10 | 23 10 | 23 32 | 19 44 | 19 57 | | | | | Δ | |
| 11 | 23 16 | 23 38 | 20 22 | 12 17 | 56 | ☉ ☿ ☿ | | * | | |
| 12 | 23 21 | 23 44 | 20 59 | 27 19 | 38 | ☿ ☐ ♄ | ♂ | | Δ ☐ | ♂ ♂ |
| 13 | 23 27 | 23 50 | 21 37 | 42 21 | 20 | ☿ ☐ ♄ | | | | |
| 14 | 23 32 | 23 56 | 22 15 | 57 23 | 1 | ☿ * ♄ | | | ☐ * | Δ |
| 15 | 23 37 | 24 1 | 22 53 | 12 24 | 41 | | ♂ | | | |
| 16 | 23 42 | 24 6 | 23 31 | 27 26 | 20 | ☉ ☐ ♄ | Δ | | * | ☐ |
| 17 | 23 47 | 24 11 | 24 9 | 42 27 | 59 | ☉ * ♄ | | | | Δ Δ |
| 18 | 23 52 | 24 16 | 24 46 | 57 29 | 37 | ☉ ☐ ♄ | | | | |
| 19 | 23 56 | 24 20 | 25 24 | 1 m 12 | 1 m 15 | ☿ ☿ ☿ | ☐ | | ♂ * | ☐ ☐ |
| 20 | 24 1 | 24 24 | 2 2 | 27 2 | 52 | | | * | | |
| 21 | 24 6 | 24 29 | 26 40 | 3 42 | 4 28 | | | * | ♂ | |
| 22 | 24 11 | 24 33 | 27 18 | 4 57 | 6 4 | | | ☐ | | * |
| 23 | 24 16 | 24 37 | 27 56 | 6 12 | 7 40 | | | | * | ♂ |
| 24 | 24 20 | 24 41 | 28 33 | 7 27 | 9 15 | | Δ | | | |
| 25 | 24 25 | 24 45 | 29 11 | 8 42 | 10 49 | | | | ☐ | |
| 26 | 24 30 | 24 49 | 29 49 | 9 57 | 12 22 | | | | | ♂ |
| 27 | 24 34 | 24 52 | 0 ♄ 27 | 11 12 | 13 56 | | | | | |
| 28 | 24 38 | 24 55 | 1 5 | 12 28 | 15 29 | | | | | |
| 29 | 24 42 | 24 58 | 1 43 | 13 43 | 17 1 | | | | | |
| 30 | 24 46 | 25 0 | 2 21 | 14 58 | 18 32 | | | | | |
| 31 | 24 49 | 25 3 | 2 59 | 16 13 | 20 4 | | | | | * |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 S 6 | 21 N 22 | 1 N 5 | 14 N 15 | 0 N 8 | 21 N 16 |
| 4 | 16 | 9 | 0 6 | 21 21 | 1 5 | 14 12 | 0 9 | 21 15 |
| 7 | 16 | 10 | 0 6 | 21 20 | 1 6 | 14 9 | 0 9 | 21 15 |
| 10 | 16 | 11 | 0 6 | 21 18 | 1 6 | 14 7 | 0 9 | 21 15 |
| 13 | 16 | 12 | 0 6 | 21 17 | 1 7 | 14 4 | 0 10 | 21 15 |
| 16 | 16 | 12 | 0 6 | 21 16 | 1 8 | 14 2 | 0 10 | 21 15 |
| 19 | 16 | 13 | 0 6 | 21 15 | 1 8 | 14 1 | 0 10 | 21 15 |
| 22 | 16 | 13 | 0 6 | 21 13 | 1 9 | 14 0 | 0 11 | 21 15 |
| 25 | 16 | 14 | 0 6 | 21 12 | 1 10 | 13 59 | 0 12 | 21 15 |
| 28 | 16 | 14 | 0 6 | 21 11 | 1 10 | 13 58 | 0 12 | 21 15 |

| D
M | D
W | Sidereal
Time.
H. M. S. | ☉
Long.
° ' " | ☉
Declin.
° ' " | ☽
Long.
° ' " | ☽
Lat.
° ' " | ☽
Declin.
° ' " | ♂
Long.
° |
|--------|--------|-------------------------------|---------------------|-----------------------|---------------------|--------------------|-----------------------|-----------------|
| 1 | Tu | 14 40 59 | 8 m 33 35 | 14 S 22 | 25 w 45 | 1 S 47 | 22 S 46 | 6 D 50 |
| 2 | W | 14 44 55 | 9 33 42 | 14 41 | 7 m 37 | 0 46 | 19 8 | 6 D 40 |
| 3 | Th | 14 48 52 | 10 33 51 | 15 0 | 19 25 | 0 N 16 | 14 45 | 6 45 |
| 4 | F | 14 52 49 | 11 34 1 | 15 19 | 1 x 14 | 1 18 | 9 50 | 6 43 |
| 5 | S | 14 56 45 | 12 34 12 | 15 37 | 13 9 | 2 17 | 4 31 | 6 41 |
| 6 | S | 15 0 42 | 13 34 25 | 15 55 | 25 16 | 3 10 | 1 N 2 | 6 38 |
| 7 | M | 15 4 39 | 14 34 40 | 16 14 | 7 r 37 | 3 56 | 6 38 | 6 36 |
| 8 | Tu | 15 8 35 | 15 34 56 | 16 31 | 20 16 | 4 31 | 12 6 | 6 34 |
| 9 | W | 15 12 31 | 16 35 14 | 16 49 | 3 x 14 | 4 53 | 17 11 | 6 32 |
| 10 | Th | 15 16 28 | 17 35 34 | 17 6 | 16 31 | 5 0 | 21 34 | 6 30 |
| 11 | F | 15 20 24 | 18 35 55 | 17 22 | 0 D 4 | 4 50 | 24 54 | 6 28 |
| 12 | S | 15 24 21 | 19 36 18 | 17 39 | 13 50 | 4 24 | 26 51 | 6 25 |
| 13 | S | 15 28 18 | 20 36 43 | 17 55 | 27 45 | 3 41 | 27 8 | 6 23 |
| 14 | M | 15 32 14 | 21 37 9 | 18 11 | 11 x 47 | 2 45 | 25 41 | 6 21 |
| 15 | Tu | 15 36 11 | 22 37 38 | 18 27 | 25 52 | 1 36 | 22 36 | 6 19 |
| 16 | W | 15 40 7 | 23 38 8 | 18 42 | 9 Q 57 | 0 26 | 18 11 | 6 16 |
| 17 | Th | 15 44 4 | 24 38 40 | 18 57 | 24 3 | 0 S 49 | 12 45 | 6 15 |
| 18 | F | 15 48 1 | 25 39 14 | 19 11 | 8 w 7 | 2 0 | 6 40 | 6 14 |
| 19 | S | 15 51 57 | 26 39 50 | 19 26 | 22 10 | 3 4 | 0 17 | 6 12 |
| 20 | S | 15 55 54 | 27 40 27 | 19 39 | 6 x 9 | 3 57 | 6 S 4 | 6 10 |
| 21 | M | 15 59 50 | 28 41 6 | 19 53 | 20 4 | 4 35 | 12 5 | 6 8 |
| 22 | Tu | 16 3 47 | 29 41 47 | 20 6 | 3 m 52 | 4 56 | 17 27 | 6 6 |
| 23 | W | 16 7 43 | 0 f 42 29 | 20 19 | 17 28 | 5 1 | 21 52 | 5 58 |
| 24 | Th | 16 11 40 | 1 43 13 | 20 31 | 0 f 51 | 4 49 | 25 3 | 5 55 |
| 25 | F | 16 15 36 | 2 43 58 | 20 43 | 13 57 | 4 21 | 26 49 | 5 53 |
| 26 | S | 16 19 33 | 3 44 44 | 20 55 | 26 46 | 3 41 | 27 6 | 5 51 |
| 27 | S | 16 23 29 | 4 45 32 | 21 6 | 9 w 17 | 2 51 | 25 58 | 5 49 |
| 28 | M | 16 27 26 | 5 46 20 | 21 17 | 21 31 | 1 54 | 23 36 | 5 45 |
| 29 | Tu | 16 31 22 | 6 47 10 | 21 28 | 8 m 32 | 0 52 | 20 13 | 5 43 |
| 30 | W | 16 35 19 | 7 48 1 | 21 38 | 15 24 | 0 N 11 | 16 3 | 5 41 |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 6 | 21 N 10 | 1 N 11 | 13 N 58 | 0 N 13 | 21 N 25 |
| 4 | 16 | 16 | 0 6 | 21 8 | 1 12 | 13 58 | 0 13 | 21 28 |
| 7 | 16 | 17 | 0 6 | 21 7 | 1 13 | 13 58 | 0 14 | 21 30 |
| 10 | 16 | 17 | 0 6 | 21 6 | 1 13 | 13 59 | 0 14 | 21 34 |
| 13 | 16 | 17 | 0 6 | 21 4 | 1 14 | 14 0 | 0 15 | 21 37 |
| 16 | 16 | 18 | 0 6 | 21 8 | 1 15 | 14 2 | 0 15 | 21 40 |
| 19 | 16 | 18 | 0 6 | 21 2 | 1 15 | 14 4 | 0 16 | 21 44 |
| 22 | 16 | 18 | 0 6 | 21 1 | 1 16 | 14 6 | 0 16 | 21 46 |
| 25 | 16 | 18 | 0 6 | 21 0 | 1 17 | 14 8 | 0 17 | 21 52 |
| 28 | 16 | 18 | 0 6 | 20 59 | 1 17 | 14 11 | 0 17 | 21 56 |
| 31 | 16 | 18 | 0 6 | 20 57 | 1 18 | 14 14 | 0 18 | 22 0 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☽
Long. | ☽
Lat. | ☽
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | Th | 16 39 16 | 8 48 52 | 21 S 47 | 27 12 | 1 N 13 | 11 S 18 | 5 38 |
| 2 | F | 16 43 12 | 9 49 45 | 21 57 | 9 0 | 2 13 | 6 9 | 5 36 |
| 3 | S | 16 47 9 | 10 50 38 | 22 5 | 20 55 | 3 7 | 0 44 | 5 33 |
| 4 | S | 16 51 5 | 11 51 32 | 22 14 | 8 2 | 3 54 | 4 N 46 | 5 30 |
| 5 | M | 16 55 2 | 12 52 27 | 22 22 | 15 25 | 4 30 | 10 14 | 5 28 |
| 6 | Tu | 16 58 58 | 13 53 23 | 22 29 | 28 9 | 4 55 | 15 24 | 5 25 |
| 7 | W | 17 2 55 | 14 54 19 | 22 36 | 11 15 | 5 520 | 3 | 5 22 |
| 8 | Th | 17 6 51 | 15 55 16 | 22 43 | 24 46 | 4 59 | 23 48 | 5 20 |
| 9 | F | 17 10 48 | 16 56 14 | 22 49 | 8 38 | 4 35 | 26 17 | 5 17 |
| 10 | S | 17 14 45 | 17 57 13 | 22 55 | 22 48 | 3 54 | 27 9 | 5 15 |
| 11 | S | 17 18 41 | 18 58 12 | 23 0 | 7 11 | 2 57 | 26 13 | 5 13 |
| 12 | M | 17 22 38 | 19 59 13 | 23 5 | 21 40 | 1 48 | 23 30 | 5 10 |
| 13 | Tu | 17 26 34 | 21 0 14 | 23 9 | 6 10 | 0 33 | 19 16 | 5 8 |
| 14 | W | 17 30 31 | 22 1 17 | 23 13 | 20 86 | 0 S 45 | 13 56 | 5 6 |
| 15 | Th | 17 34 27 | 23 2 20 | 23 17 | 4 54 | 1 59 | 7 52 | 5 3 |
| 16 | F | 17 38 24 | 24 3 24 | 23 20 | 19 8 | 3 5 | 1 30 | 5 1 |
| 17 | S | 17 42 20 | 25 4 29 | 23 22 | 3 0 | 3 59 | 48 51 | 4 59 |
| 18 | S | 17 46 17 | 26 5 36 | 23 24 | 16 46 | 4 39 | 10 54 | 4 57 |
| 19 | M | 17 50 14 | 27 6 42 | 23 26 | 0 21 | 5 2 | 16 19 | 4 54 |
| 20 | Tu | 17 54 10 | 28 7 50 | 23 27 | 13 44 | 5 9 | 20 52 | 4 52 |
| 21 | W | 17 58 7 | 29 8 58 | 23 27 | 26 55 | 4 58 | 24 19 | 4 49 |
| 22 | Th | 18 2 3 | 0 10 7 | 23 28 | 9 53 | 4 33 | 26 27 | 4 47 |
| 23 | F | 18 6 0 | 1 11 17 | 23 27 | 22 88 | 3 54 | 27 9 | 4 43 |
| 24 | S | 18 9 56 | 2 12 26 | 23 26 | 5 10 | 3 5 | 26 26 | 4 41 |
| 25 | S | 18 13 53 | 3 13 37 | 23 25 | 17 29 | 2 7 | 24 25 | 4 39 |
| 26 | M | 18 17 50 | 4 14 47 | 23 23 | 29 86 | 1 4 | 21 18 | 4 37 |
| 27 | Tu | 18 21 46 | 5 15 58 | 23 21 | 11 33 | 0 N 0 | 17 19 | 4 35 |
| 28 | W | 18 25 43 | 6 17 8 | 23 19 | 23 23 | 1 5 | 12 43 | 4 33 |
| 29 | Th | 18 29 39 | 7 18 18 | 23 15 | 5 10 | 2 6 | 7 40 | 4 31 |
| 30 | F | 18 33 35 | 8 19 29 | 23 12 | 16 58 | 3 2 | 2 21 | 4 29 |
| 31 | S | 18 37 32 | 9 20 39 | 23 8 | 28 51 | 3 51 | 3 N 4 | 4 25 |

DECEMBER XXXI DAYS.

| | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|---|-------|---------|--------|---------|----------|---------|--------------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 1 N 6 | 7 8 48 | 0 S 49 | 24 S 10 | 1 S 51 | 25 S 17 | 14 ^m 25 |
| 4 | 1 6 | 8 25 | 0 55 | 24 23 | 1 15 | 24 42 | 14 16 |
| 7 | 1 5 | 9 6 | 1 1 | 24 27 | 0 28 | 23 56 | 14 6 |
| 0 | 1 4 | 9 47 | 1 7 | 24 26 | 0 N 29 | 22 57 | 13 56 |
| 3 | 1 3 | 10 28 | 1 12 | 24 17 | 1 27 | 21 50 | 13 47 |
| 6 | 1 3 | 11 7 | 1 17 | 24 2 | 2 18 | 20 45 | 13 37 |
| 9 | 1 2 | 11 46 | 1 22 | 23 40 | 2 53 | 19 56 | 13 28 |
| 2 | 1 1 | 12 25 | 1 26 | 23 12 | 3 0 | 19 33 | 13 18 |
| 5 | 1 0 | 13 2 | 1 30 | 22 37 | 2 54 | 19 35 | 13 8 |
| 8 | 1 0 | 13 39 | 1 33 | 21 57 | 2 40 | 19 58 | 12 59 |
| 1 | 0 59 | 14 15 | 1 36 | 21 10 | 2 16 | 20 32 | 12 49 |

| | ♈ | ♉ | ♊ | ♋ | ♌ |
|---|-------|---------|-------------------|-------|---------------------------|
| | Long. | Long. | Long. | Long. | Long. |
| | ° | ' | ° | ' | ° |
| 1 | 26 2 | 1 24 40 | 22 26 | 25 2 | 2 29 14 |
| 2 | 26 | 2 24 36 | 23 | 3 26 | 17 29 42 |
| 3 | 23 | 2 24 | 32 23 | 41 27 | 32 0 w 2 |
| 4 | 26 | 3 24 | 28 24 | 18 28 | 47 0 12 |
| 5 | 26 | 3 24 | 23 24 | 56 | 0 w 2 0 14 |
| 6 | 26 | 4 24 | 19 25 | 33 | 1 17 0 R 4 |
| 7 | 26 | 4 24 | 15 26 | 11 | 2 32 29 f 43 |
| 8 | 26 | 4 24 | 9 26 | 48 | 3 47 29 11 |
| 0 | 26 R | 4 24 | 4 27 | 26 | 5 2 28 28 |
| 0 | 26 | 3 23 | 59 28 | 3 | 6 17 27 34 |
| 1 | 26 | 3 23 | 53 28 | 40 | 7 32 26 28 |
| 2 | 26 | 2 23 | 48 29 | 18 | 8 47 25 14 |
| 3 | 26 | 2 23 | 42 29 | 55 | 10 2 23 56 |
| 4 | 26 | 1 23 | 36 0 ^m | 33 | 11 18 22 35 |
| 5 | 26 | 0 23 | 30 1 | 10 | 12 33 21 12 |
| 6 | 25 | 59 23 | 24 | 1 | 47 13 48 19 51 |
| 7 | 25 | 57 23 | 18 | 2 | 25 15 3 18 35 |
| 8 | 25 | 55 23 | 11 | 3 | 2 16 18 17 26 |
| 9 | 25 | 54 23 | 4 | 3 | 39 17 33 16 26 |
| 0 | 25 | 53 22 | 58 | 4 | 17 18 48 15 34 |
| 1 | 25 | 52 22 | 51 | 4 | 54 20 8 14 58 |
| 2 | 25 | 50 22 | 44 | 5 | 32 21 18 14 23 |
| 3 | 25 | 48 22 | 37 | 6 | 9 22 33 14 5 |
| 4 | 25 | 47 22 | 30 | 6 | 46 23 48 13 56 |
| 5 | 25 | 46 22 | 23 | 7 | 24 25 2 18 D 58 |
| 6 | 25 | 45 22 | 16 | 8 | 1 26 17 14 8 |
| 7 | 25 | 43 22 | 8 | 8 | 38 27 32 14 21 |
| 8 | 25 | 40 22 | 1 | 9 | 15 28 47 14 51 |
| 9 | 25 | 38 21 | 53 | 9 | 52 0 ^m 2 15 26 |
| 0 | 25 | 35 21 | 46 | 10 | 29 1 17 16 4 |
| 1 | 25 | 33 21 | 38 | 11 | 6 2 32 16 54 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | 7 | 8 | 9 | Ω | | Ω | ω | | | | 8 | 9 | 10 | Ω | | ω | ω |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 24 | 28 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 23 | 5 | 25 |
| 0 | 3 | 40 | 1 | 11 | 25 | 28 | 46 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 26 |
| 0 | 7 | 20 | 2 | 12 | 26 | 29 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 27 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 28 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 49 | 17 | 6 | 2 | 6 | 59 | 4 | 15 | 22 | 20 | 9 | 9 | 29 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 48 | 9 | 30 |
| 0 | 22 | 2 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 31 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 32 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 | 33 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 28 | 12 | 34 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 35 |
| 0 | 40 | 26 | 11 | 21 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 48 | 13 | 36 |
| 0 | 44 | 8 | 12 | 22 | 4 | 5 | 58 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 37 |
| 0 | 47 | 50 | 13 | 24 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 38 |
| 0 | 51 | 32 | 14 | 25 | 6 | 7 | 14 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | Q | 26 | 48 | 15 | 39 |
| 0 | 55 | 14 | 15 | 26 | 7 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 40 |
| 0 | 58 | 5 | 16 | 27 | 8 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 19 | 17 | 41 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 26 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 | 42 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 3 | 2 | 8 | 18 | 28 | 3 | 29 | 22 | 19 | 43 |
| 1 | 10 | 7 | 19 | II | 10 | 10 | 25 | 27 | 19 | 3 | 6 | 9 | 19 | 29 | 4 | Q | 13 | 20 | 44 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 3 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 21 | 45 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 3 | 14 | 15 | 21 | 31 | 0 | 5 | 1 | 22 | 46 |
| 1 | 21 | 20 | 22 | 3 | 12 | 12 | 22 | 29 | 21 | 3 | 18 | 19 | 22 | 32 | 1 | 6 | 2 | 17 | 47 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | ω | 22 | 3 | 22 | 22 | 23 | 33 | 2 | 7 | 2 | 59 | 48 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 30 | 1 | 23 | 3 | 26 | 20 | 24 | 34 | 3 | 8 | 3 | 41 | 49 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 3 | 30 | 35 | 25 | 35 | 4 | 8 | 4 | 28 | 50 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 2 | 25 | 3 | 34 | 41 | 26 | 36 | 5 | 9 | 5 | 5 | 51 |
| 1 | 40 | 12 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 3 | 38 | 49 | 27 | 37 | 6 | 10 | 5 | 47 | 52 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 3 | 42 | 57 | 28 | 38 | 7 | 11 | 6 | 20 | 53 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 3 | 47 | 6 | 29 | 39 | 8 | 12 | 7 | 12 | 54 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 3 | 51 | 15 | 30 | 40 | 9 | 12 | 7 | 54 | 55 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| | | | II | Ω | Ω | ω | | ω | Δ | | | | Ω | Ω | ω | Δ | | Δ | ω |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 28 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 42 | 2 | 9 | 9 | 1 | 29 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 12 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 22 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 18 | 5 | 14 | 16 | 11 | 30 | 2 | ω | 6 | 21 | 48 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 36 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 29 | 28 | 29 |
| 4 | 20 | 40 | 7 | 16 | 18 | 12 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 30 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 13 | 6 | 0 | ω | 31 |
| 4 | 29 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 39 | 11 | 9 | 15 | 14 | 6 | 44 | 1 | 32 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 43 | 31 | 10 | 16 | 15 | 7 | 28 | 2 | 33 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 3 | 34 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 8 | 59 | 4 | 35 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 42 | 5 | 36 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 6 | 37 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 7 | 38 |
| 4 | 59 | 10 | 16 | 24 | 26 | 19 | 33 | 12 | 10 | 7 | 9 | 28 | 16 | 22 | 20 | 11 | 56 | 8 | 39 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 13 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 49 | 9 | 40 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 24 | 9 | 41 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 8 | 9 | 42 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 26 | 24 | 14 | 53 | 10 | 43 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 27 | 25 | 15 | 28 | 10 | 44 |
| 5 | 25 | 9 | 22 | 29 | ω | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 26 | 16 | 29 | 11 | 45 |
| 5 | 29 | 30 | 23 | Q | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 27 | 17 | 4 | 12 | 46 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 28 | 17 | 47 | 13 | 47 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 29 | 18 | 28 | 14 | 48 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 31 | 30 | 19 | 29 | 15 | 49 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 32 | 31 | 20 | 47 | 16 | 50 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 33 | 32 | 21 | 48 | 17 | 51 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 34 | 33 | 22 | 49 | 18 | 52 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 45 | 30 | 35 | 34 | 23 | 0 | 19 | 53 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|-------------------------|----|----|----|----|----|-------|----|----|----|-------------------------|----|----|----|----|----|-------|----|----|----|
| | | | Ω | ∇ | △ | △ | | m | ∫ | | | | ∇ | △ | △ | m | | ∫ | ∇ |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 8 | 8 | 45 | 0 | 5 | 2 | 23 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 18 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 23 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | ∇ | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | m |
| 8 | 57 | 52 | 12 | 16 | 11 | 0m | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | ∫ | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 18 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | ∇ | 13 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | -1 | 15 |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 53 | 3 | 17 |
| 10 | 0 | 43 | 28 | △ | 24 | 11 | 9 | 10 | 18 | 11 | 52 | 40 | 28 | 25 | 15 | 0∫ | 35 | 4 | 18 |
| 10 | 4 | 33 | 29 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 30 | 29 | 26 | 15 | 1 | 11 | 5 | 20 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 21 |

| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|-------------------------|----|----|----|----|----|-------|----|----|----|-------------------------|----|----|----|----|----|-------|----|----|----|
| | | | △ | △ | ∇ | ∫ | | ∇ | ∇ | | | | ∇ | ∇ | ∫ | ∫ | | ∇ | × |
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 12 | 51 | 37 | 0 | 21 | 8 | 33 | 4 | 7 | 27 |
| 12 | 3 | 40 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 28 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 12 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | ∇ |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 28 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 31 | 12 | 2 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 26 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 26 | 48 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 29 | 58 | 17 | 7 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | × | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 23 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0∇ | 45 | 20 | 9 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | ∫ | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 25 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 23 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 18 |
| 12 | 59 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | × | 19 |
| 13 | 2 | 40 | 17 | 11 | 28 | 12 | 17 | 22 | 10 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 20 |
| 13 | 6 | 23 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 32 | 4 | 21 |
| 13 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 39 | 6 | 22 |
| 13 | 13 | 51 | 20 | 13 | ∫ | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 13 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 13 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 13 | 25 | 6 | 23 | 15 | 2 | 17 | 39 | 29 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 28 |
| 13 | 28 | 52 | 24 | 16 | 3 | 18 | 25 | m | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 29 |
| 13 | 32 | 33 | 25 | 17 | 4 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 3 |
| 13 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 21 | 15 | 34 | 41 | 26 | 14 | ∇ | 18 | 53 | 19 | 2 |
| 13 | 40 | 12 | 27 | 19 | 6 | 20 | 48 | 3 | 22 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 2 |
| 13 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 23 | 15 | 42 | 37 | 28 | 15 | 2 | 21 | 23 | 22 | 4 |
| 13 | 47 | 49 | 29 | 21 | 7 | 22 | 16 | 5 | 24 | 15 | 47 | 8 | 29 | 16 | 3 | 22 | 59 | 24 | 6 |
| 13 | 51 | 27 | 30 | 22 | 8 | 23 | 4 | 6 | 25 | 15 | 51 | 15 | 30 | 17 | 4 | 23 | 12 | 25 | 7 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | | ° | ° | H. M. S. | | | ° | ° | ° | ° | | ° | ° |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 18 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 2 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 23 | 1 | 18 | 11 | 2 | 53 | 2 | 2 |
| 15 | 59 | 38 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 12 | 5 | 46 | 3 | 3 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 6 | 35 | 4 | 4 |
| 16 | 8 | 0 | 4 | 21 | 8 | Om 11 | | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 5 | 5 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 48 | 5 | 22 | 18 | 14 | 9 | 5 | 6 |
| 16 | 16 | 28 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 23 | 20 | 15 | 56 | 6 | 7 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 24 | 21 | 19 | 36 | 7 | 8 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 25 | 23 | 23 | 16 | 8 | 9 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 26 | 24 | 24 | 51 | 9 | 10 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 27 | 26 | 27 | 24 | 10 | 11 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 28 | 28 | 29 | 53 | 11 | 12 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 29 | 29 | 25 | 19 | 12 | 13 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 30 | 30 | 4 | 46 | 13 | 14 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 30 | 14 | 3 | 31 | 2 | 58 | 14 | 15 |
| 16 | 54 | 52 | 15 | 2 | 20 | 20 | 40 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 32 | 4 | 11 | 15 | 16 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 33 | 6 | 21 | 16 | 17 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 6 | 34 | 8 | 13 | 17 | 18 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 30 | 29 | 19 | 18 | 1 | 18 | 7 | 35 | 10 | 15 | 18 | 19 |
| 17 | 12 | 9 | 19 | 6 | 24 | 0 | 7 | 3 | 30 | 19 | 23 | 18 | 19 | 8 | 36 | 12 | 17 | 19 | 20 |
| 17 | 16 | 29 | 20 | 7 | 25 | 2 | 36 | 5 | 3 | 19 | 28 | 34 | 20 | 9 | 37 | 14 | 19 | 20 | 21 |
| 17 | 20 | 49 | 21 | 8 | 26 | 5 | 9 | 6 | 4 | 19 | 30 | 50 | 21 | 10 | 38 | 16 | 21 | 21 | 22 |
| 17 | 25 | 9 | 22 | 9 | 27 | 7 | 44 | 7 | 5 | 19 | 35 | 5 | 22 | 11 | 39 | 18 | 23 | 22 | 23 |
| 17 | 29 | 30 | 23 | 10 | 28 | 10 | 23 | 8 | 6 | 19 | 39 | 20 | 23 | 12 | 40 | 20 | 24 | 23 | 24 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 13 | 41 | 22 | 26 | 24 | 25 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 14 | 42 | 24 | 28 | 25 | 26 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 15 | 43 | 26 | 29 | 26 | 27 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 16 | 44 | 28 | 31 | 27 | 28 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 34 | 28 | 17 | 45 | 30 | 33 | 28 | 29 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 35 | 29 | 18 | 46 | 32 | 35 | 29 | 30 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 12 | 20 | 8 | 45 | 30 | 19 | 47 | 34 | 37 | 30 | 31 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | | ° | ° | H. M. S. | | | ° | ° | ° | ° | | ° | ° |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 23 | 8 | 23 | 0 | 3 | 23 | 6 | 56 | 2 | 7 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 23 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 3 | 8 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 33 | 28 | 14 | 23 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 4 | 9 |
| 20 | 21 | 11 | 3 | 26 | 9 | 9 | 50 | 29 | 15 | 23 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 5 | 10 |
| 20 | 25 | 19 | 4 | 27 | 11 | 11 | 7 | 25 | 16 | 23 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 6 | 11 |
| 20 | 29 | 26 | 5 | 28 | 13 | 12 | 23 | 1 | 17 | 23 | 27 | 22 | 5 | 9 | 28 | 10 | 52 | 7 | 12 |
| 20 | 33 | 31 | 6 | 29 | 15 | 13 | 39 | 2 | 18 | 23 | 31 | 8 | 6 | 10 | 29 | 11 | 35 | 8 | 13 |
| 20 | 37 | 37 | 7 | 30 | 17 | 14 | 50 | 3 | 19 | 23 | 34 | 54 | 7 | 11 | 30 | 12 | 22 | 9 | 14 |
| 20 | 41 | 41 | 8 | 31 | 18 | 15 | 0 | 4 | 20 | 23 | 38 | 40 | 8 | 12 | 31 | 13 | 6 | 10 | 15 |
| 20 | 45 | 45 | 9 | 32 | 19 | 16 | 8 | 5 | 21 | 23 | 42 | 25 | 9 | 13 | 32 | 14 | 48 | 11 | 16 |
| 20 | 49 | 49 | 10 | 33 | 20 | 17 | 16 | 6 | 22 | 23 | 46 | 9 | 10 | 14 | 33 | 15 | 33 | 12 | 17 |
| 20 | 53 | 51 | 11 | 34 | 21 | 18 | 23 | 7 | 23 | 23 | 49 | 53 | 11 | 15 | 34 | 16 | 17 | 13 | 18 |
| 20 | 57 | 52 | 12 | 35 | 22 | 19 | 27 | 7 | 24 | 23 | 53 | 37 | 12 | 16 | 35 | 17 | 0 | 14 | 19 |
| 21 | 1 | 53 | 13 | 36 | 23 | 20 | 30 | 8 | 25 | 23 | 57 | 30 | 13 | 17 | 36 | 18 | 43 | 15 | 20 |
| 21 | 5 | 53 | 14 | 37 | 24 | 21 | 33 | 9 | 26 | 23 | 1 | 3 | 14 | 18 | 37 | 19 | 25 | 16 | 21 |
| 21 | 9 | 53 | 15 | 38 | 25 | 22 | 33 | 10 | 27 | 23 | 4 | 46 | 15 | 19 | 38 | 20 | 7 | 17 | 22 |
| 21 | 13 | 52 | 16 | 39 | 26 | 23 | 33 | 11 | 28 | 23 | 8 | 28 | 16 | 20 | 39 | 21 | 49 | 18 | 23 |
| 21 | 17 | 50 | 17 | 40 | 27 | 24 | 30 | 12 | 29 | 23 | 12 | 10 | 17 | 21 | 40 | 22 | 31 | 19 | 24 |
| 21 | 21 | 47 | 18 | 41 | 28 | 25 | 28 | 13 | 30 | 23 | 15 | 52 | 18 | 22 | 41 | 23 | 12 | 20 | 25 |
| 21 | 25 | 44 | 19 | 42 | 29 | 26 | 24 | 14 | 31 | 23 | 19 | 34 | 19 | 23 | 42 | 24 | 53 | 21 | 26 |
| 21 | 29 | 40 | 20 | 43 | 30 | 27 | 20 | 15 | 32 | 23 | 23 | 15 | 20 | 24 | 43 | 25 | 24 | 22 | 27 |
| 21 | 33 | 35 | 21 | 44 | 31 | 28 | 15 | 16 | 33 | 23 | 26 | 56 | 21 | 25 | 44 | 26 | 14 | 23 | 28 |
| 21 | 37 | 29 | 22 | 45 | 32 | 29 | 9 | 16 | 34 | 23 | 30 | 37 | 22 | 26 | 45 | 27 | 52 | 24 | 29 |
| 21 | 41 | 29 | 23 | 46 | 33 | 30 | 1 | 16 | 35 | 23 | 34 | 18 | 23 | 27 | 46 | 28 | 32 | 25 | 30 |
| 21 | 45 | 16 | 24 | 47 | 34 | 31 | 55 | 17 | 36 | 23 | 37 | 58 | 24 | 28 | 47 | 29 | 13 | 26 | 31 |
| 21 | 49 | 9 | 25 | 48 | 35 | 32 | 47 | 18 | 37 | 23 | 41 | 30 | 25 | 29 | 48 | 30 | 53 | 27 | 32 |
| 21 | 53 | 1 | 26 | 49 | 36 | 33 | 3 | 19 | 38 | 23 | 45 | 18 | 26 | 30 | 49 | 31 | 11 | 28 | 33 |
| 21 | 56 | 52 | 27 | 50 | 37 | 34 | 4 | 20 | 39 | 23 | 49 | 0 | 27 | 31 | 50 | 32 | 49 | 29 | 34 |
| 22 | 0 | 48 | 28 | 51 | 38 | 35 | 5 | 21 | 40 | 23 | 53 | 40 | 28 | 32 | 51 | 33 | 1 | 30 | 35 |
| 22 | 4 | 38 | 29 | 52 | 39 | 36 | 6 | 22 | 41 | 23 | 56 | 29 | 29 | 33 | 52 | 34 | 27 | 31 | 36 |
| 22 | 8 | 28 | 30 | 53 | 40 | 37 | 16 | 23 | 42 | 23 | 0 | 9 | 30 | 34 | 53 | 35 | 3 | 32 | 37 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING and RESTORATIVE** Properties. Hence their invariable success in the **RELIEF and CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

ALL Invalids should read Crosby's Prime Treatise on "**DISEASES OF THE LUNGS AND AIR VESSELS**," a copy of which can be had **Gratis** of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to **CROSBY'S BALSAMIC COUGH ELIXIR** as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdued Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment in this disease."

CROSBY'S BALSAMIC COUGH ELIXIR

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

**CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by **JAS. M. CROSBY**, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Ask your Chemist for the New Edition (GRATIS) of Crosby's Price Treatise on "**DISEASES OF THE LUNGS AND AIR-VESSELS**," containing full and plain instructions for the relief and cure of these diseases, or Post Free from **JAS. M. CROSBY**, Chemist, Scarborough.

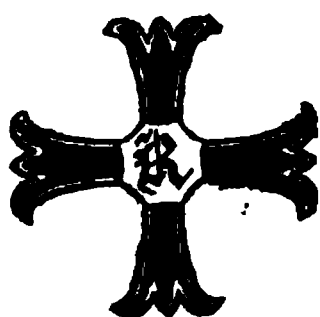
CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
.
OF THE
PLANETS' PLACES

For 1860.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

(A123) 737 : .160

DR. ROOKE'S ANTI-LANCET

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spirituuous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read DR. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or post free from Dr. Rook, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed: "It will be an inestimable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Rook under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its contents and matter I can judge, for I have been an author on other themes for many years. None but a master-mind and men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual mind, body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of any Chemists, or post free from Dr. Rook, Scarborough, England.

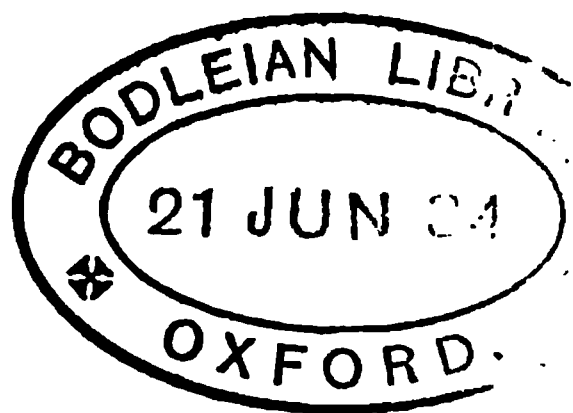
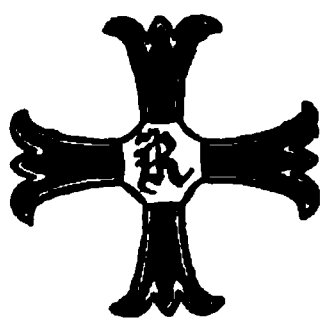
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (post free) of the last edition, containing 172 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1860.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| I | 16 | 18 | 0 5 | 20 N 57 | 1 N 18 | 14 N 15 | 0 N 19 | 22 N 2 |
| 4 | 16 | 18 | 0 5 | 20 56 | 1 18 | 14 18 | 0 19 | 22 6 |
| 7 | 16 | 18 | 0 5 | 20 55 | 1 19 | 14 22 | 0 19 | 22 10 |
| III | 16 | 18 | 0 5 | 20 54 | 1 19 | 14 26 | 0 19 | 22 14 |
| 10 | 16 | 18 | 0 5 | 20 53 | 1 20 | 14 30 | 0 20 | 22 18 |
| 13 | 16 | 18 | 0 5 | 20 53 | 1 20 | 14 34 | 0 20 | 22 22 |
| 16 | 16 | 17 | 0 5 | 20 52 | 1 21 | 14 39 | 0 20 | 22 26 |
| 19 | 16 | 17 | 0 5 | 20 52 | 1 21 | 14 44 | 0 20 | 22 30 |
| 22 | 16 | 17 | 0 5 | 20 51 | 1 22 | 14 48 | 0 21 | 22 34 |
| 25 | 16 | 17 | 0 5 | 20 51 | 1 22 | 14 53 | 0 21 | 22 38 |
| 28 | 16 | 17 | 0 5 | 20 50 | 1 23 | 14 58 | 0 21 | 22 42 |
| III | 16 | 16 | 0 5 | 20 50 | 1 23 | 14 58 | 0 21 | 22 46 |

| D
M | D
W | Sidereal
Time. | | | ☉ | | ☉ | | ☽ | | ☿ |
|--------|--------|-------------------|----|----|----------|-----------|---------|-------------|---------|-------|------|
| | | H. M. S. | | | Long. | Declin. | Long. | Lat. | Declin. | Long. | |
| | | ° | ' | " | ° | ' | ° | ' | ° | ' | ° |
| 1 | S | 18 | 41 | 29 | 10 W 21 | 49 23 S 3 | 10 7 56 | 4 N 30 | 8 N 28 | 40 56 | |
| 2 | M | 18 | 45 | 25 | 11 22 59 | 22 23 | 23 16 | 4 58 13 | 39 | 4 25 | |
| 3 | Tu | 18 | 49 | 22 | 12 24 8 | 22 53 | 5 8 56 | 5 12 18 | 25 | 4 29 | |
| 4 | W | 18 | 53 | 19 | 13 25 17 | 22 48 | 19 1 | 5 11 23 | 28 | 4 31 | |
| 5 | Th | 18 | 57 | 15 | 14 26 25 | 22 41 | 2 33 | 4 53 25 | 28 | 4 39 | |
| 6 | F | 19 | 1 | 12 | 15 27 35 | 22 35 | 16 31 | 4 17 27 | 2 | 4 45 | |
| 7 | S | 19 | 5 | 8 | 16 28 42 | 22 27 | 0 52 | 3 24 26 | 52 | 4 46 | |
| 8 | S | 19 | 9 | 5 | 17 29 50 | 22 19 | 15 33 | 2 17 24 | 49 | 4 48 | |
| 9 | M | 19 | 13 | 5 | 18 30 57 | 22 11 | 0 26 | 0 59 21 | 2 | 4 49 | |
| 10 | Tu | 19 | 16 | 58 | 19 32 5 | 22 15 | 23 | 0 8 23 | 15 | 52 | 4 41 |
| 11 | W | 19 | 20 | 54 | 20 33 12 | 21 58 | 0 16 | 1 48 9 | 46 | 4 49 | |
| 12 | Th | 19 | 24 | 51 | 21 34 19 | 21 44 | 14 57 | 2 56 8 | 14 | 4 5 | |
| 13 | F | 19 | 28 | 48 | 22 35 26 | 21 34 | 29 23 | 3 56 38 | 22 | 4 7 | |
| 14 | S | 19 | 32 | 44 | 23 36 32 | 21 24 | 13 30 | 4 40 9 | 38 | 4 9 | |
| 15 | S | 19 | 36 | 41 | 24 37 39 | 21 18 | 27 17 | 5 7 15 | 17 | 4 11 | |
| 16 | M | 19 | 40 | 37 | 25 38 45 | 21 2 | 10 44 | 5 18 20 | 4 | 4 13 | |
| 17 | Tu | 19 | 44 | 34 | 26 39 51 | 20 50 | 23 53 | 5 9 23 | 44 | 4 15 | |
| 18 | W | 19 | 48 | 30 | 27 40 56 | 20 39 | 6 46 | 4 46 26 | 9 | 4 17 | |
| 19 | Th | 19 | 52 | 27 | 28 42 1 | 20 26 | 19 24 | 4 9 27 | 10 | 3 54 | |
| 20 | F | 19 | 56 | 23 | 29 43 6 | 20 14 | 1 49 | 3 21 26 | 48 | 3 56 | |
| 21 | S | 20 | 0 | 20 | 0 44 10 | 20 1 | 14 3 | 2 24 25 | 7 | 3 57 | |
| 22 | S | 20 | 4 | 17 | 1 45 14 | 19 47 | 26 9 | 1 22 23 | 17 | 3 58 | |
| 23 | M | 20 | 8 | 13 | 2 46 16 | 19 33 | 8 6 | 0 17 18 | 31 | 3 59 | |
| 24 | Tu | 20 | 12 | 10 | 3 47 18 | 19 18 | 19 58 | 0 N 49 | 14 | 3 54 | |
| 25 | W | 20 | 16 | 6 | 4 48 19 | 19 5 | 1 46 | 1 52 9 | 6 | 3 53 | |
| 26 | Th | 20 | 20 | 3 | 5 49 19 | 18 13 | 33 | 2 51 3 | 50 | 3 51 | |
| 27 | F | 20 | 23 | 59 | 6 50 18 | 17 25 | 22 | 3 42 1 N 34 | 3 | 3 51 | |
| 28 | S | 20 | 27 | 56 | 7 51 16 | 16 7 | 17 | 4 24 6 | 56 | 3 50 | |
| 29 | S | 20 | 31 | 52 | 8 52 12 | 15 19 | 21 | 4 55 12 | 8 | 3 48 | |
| 30 | M | 20 | 35 | 49 | 9 53 8 | 14 1 | 38 | 5 14 16 | 57 | 3 46 | |
| 31 | Tu | 20 | 39 | 46 | 10 54 2 | 13 14 | 18 | 5 18 21 | 10 | 3 46 | |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | |
| 1 | 0 N 57 | 14 S 27 | 1 S 36 | 20 S 53 | 2 N 8 | 20 S 45 | 12 46 |
| 4 | 0 55 | 15 1 | 1 38 | 19 59 | 1 42 | 21 25 | 12 36 |
| 7 | 0 54 | 15 35 | 1 39 | 19 0 | 1 16 | 22 3 | 12 27 |
| 10 | 0 53 | 16 8 | 1 40 | 17 57 | 0 49 | 22 37 | 12 17 |
| 13 | 0 52 | 16 40 | 1 40 | 16 48 | 0 23 | 23 3 | 12 8 |
| 16 | 0 51 | 17 10 | 1 39 | 15 36 | 0 S 1 | 23 21 | 11 58 |
| 19 | 0 50 | 17 40 | 1 38 | 14 20 | 0 25 | 23 30 | 11 49 |
| 22 | 0 49 | 18 9 | 1 35 | 13 0 | 0 46 | 23 28 | 11 39 |
| 25 | 0 48 | 18 36 | 1 32 | 11 37 | 1 5 | 23 14 | 11 30 |
| 28 | 0 46 | 19 3 | 1 28 | 10 12 | 1 22 | 22 49 | 11 20 |
| 31 | 0 44 | 19 28 | 1 23 | 8 44 | 1 37 | 22 12 | 11 11 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|---|---|---|-----|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | | | | | | |
| 1 | 25 Ω 30 | 21 ♄ 31 | 11 ♂ 43 | 3 ♀ 47 | 17 ♊ 39 | | ☐ | | | | | |
| 2 | 25 ♄ 27 | 21 ♄ 23 | 12 20 | 5 1 | 18 33 | ♀ Δ ☿ | | | Δ | ☐ | | Δ |
| 3 | 25 24 | 21 15 | 12 57 | 6 16 | 19 30 | | | | | | | |
| 4 | 25 21 | 21 7 | 13 34 | 7 31 | 20 31 | ☉ * ♂ | Δ | | ☐ | * | ♂ | |
| 5 | 25 18 | 20 59 | 14 11 | 8 46 | 21 35 | | | ♈ | | | | |
| 6 | 25 15 | 20 51 | 14 48 | 10 1 | 22 41 | | | | | | | Δ ♂ |
| 7 | 25 12 | 20 43 | 15 25 | 11 16 | 23 50 | | | | * | | | |
| 8 | 25 9 | 20 35 | 16 2 | 12 30 | 25 1 | ♊ Δ ♈ | ♂ | | | ♈ | Δ | |
| 9 | 25 6 | 20 27 | 16 39 | 13 45 | 26 15 | ☉ P ♄ | | * | | | | |
| 10 | 25 2 | 20 19 | 17 16 | 14 59 | 27 31 | | | | | | ☐ ♂ | |
| 11 | 24 59 | 20 11 | 17 53 | 16 14 | 28 47 | ☉ ♂ ♄ | | ☐ | ♈ | | | Δ |
| 12 | 24 56 | 20 3 | 18 30 | 17 29 | 0 4 | | Δ | | | * | * | |
| 13 | 24 52 | 19 55 | 19 7 | 18 43 | 1 23 | | | Δ | | | | ☐ |
| 14 | 24 48 | 19 47 | 19 44 | 19 58 | 2 44 | ♀ ☐ ♂ | | | | ☐ | | |
| 15 | 24 44 | 19 39 | 20 20 | 21 12 | 4 6 | | ☐ | | * | | | Δ |
| 16 | 24 40 | 19 31 | 20 57 | 22 27 | 5 28 | | | | | | | * |
| 17 | 24 36 | 19 23 | 21 34 | 23 41 | 6 52 | ♊ ∠ ♂ | * | | ☐ | Δ | ♈ | ☐ |
| 18 | 24 32 | 19 15 | 22 11 | 24 56 | 8 16 | ♀ ♂ ♈ | | ♂ | | | | |
| 19 | 24 28 | 19 7 | 22 48 | 26 10 | 9 42 | ♊ ☐ ♈ | | | Δ | | | |
| 20 | 24 24 | 18 59 | 23 24 | 27 24 | 11 8 | ♄ ∠ ☿ | | | | | | * |
| 21 | 24 20 | 18 51 | 24 1 | 28 38 | 12 35 | | | | | | ♈ | ♈ |
| 22 | 24 15 | 18 44 | 24 38 | 29 52 | 14 3 | ♂ ☐ ♈ | ♈ | | | | * | |
| 23 | 24 11 | 18 36 | 25 14 | 1 6 | 15 31 | | | Δ | | | | |
| 24 | 24 7 | 18 28 | 25 51 | 2 20 | 17 0 | ☉ Δ ☿ | | | ♂ | | ☐ | |
| 25 | 24 2 | 18 21 | 26 27 | 3 35 | 18 30 | ♊ ♂ ♄ | | ☐ | | | | ♈ |
| 26 | 23 58 | 18 13 | 27 4 | 4 49 | 20 1 | | | | | | Δ | |
| 27 | 23 53 | 18 6 | 27 40 | 6 3 | 21 32 | | | | | | Δ | * |
| 28 | 23 49 | 17 59 | 28 16 | 7 17 | 23 4 | | * | * | | | | |
| 29 | 23 44 | 17 52 | 28 52 | 8 31 | 24 37 | | | | Δ | ☐ | | ☐ |
| 30 | 23 40 | 17 45 | 29 29 | 9 45 | 26 10 | | | | | | | |
| 31 | 23 35 | 17 38 | 0 1 | 11 0 | 27 44 | | ☐ | | | * | | * |

FEBRUARY XXIX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|-----------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 8 | 5 20 N 50 | 1 N 23 | 15 N 0 | 0 N 22 | 22 N 40 |
| 4 | 16 | 15 | 0 5 | 20 50 | 1 23 | 15 5 | 0 22 | 22 43 |
| 7 | 16 | 15 | 0 5 | 20 50 | 1 24 | 15 10 | 0 22 | 22 45 |
| 10 | 16 | 14 | 0 5 | 20 50 | 1 24 | 15 15 | 0 23 | 22 48 |
| 13 | 16 | 14 | 0 5 | 20 50 | 1 24 | 15 20 | 0 23 | 22 50 |
| 16 | 16 | 13 | 0 5 | 20 50 | 1 24 | 15 25 | 0 23 | 22 52 |
| 19 | 16 | 12 | 0 5 | 20 50 | 1 25 | 15 30 | 0 24 | 22 54 |
| 22 | 16 | 12 | 0 5 | 20 51 | 1 25 | 15 35 | 0 24 | 22 55 |
| 25 | 16 | 11 | 0 5 | 20 51 | 1 25 | 15 40 | 0 24 | 22 56 |
| 28 | 16 | 10 | 0 5 | 20 52 | 1 25 | 15 44 | 0 24 | 22 57 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | W | 20 | 43 | 42 | 11 54 54 | 17 8 14 | 27 8 11 | 5 N 5 | 24 N 30 | 3 48 |
| 2 | Th | 20 | 47 | 39 | 12 55 45 | 16 57 10 | 10 34 | 4 37 26 | 37 | 3 48 |
| 3 | F | 20 | 51 | 35 | 13 56 35 | 16 39 24 | 24 | 3 51 27 | 12 | 3 47 |
| 4 | S | 20 | 55 | 32 | 14 57 23 | 16 22 8 | 41 | 2 51 26 | 1 | 3 47 |
| 5 | S | 20 | 59 | 28 | 15 58 10 | 16 4 23 | 23 | 1 37 23 | 2 | 3 47 |
| 6 | M | 21 | 3 | 25 | 16 58 56 | 15 46 8 | 23 | 0 15 18 | 26 | 3 46 |
| 7 | Tu | 21 | 7 | 21 | 17 59 40 | 15 27 23 | 34 | 1 8 12 | 36 | 3 46 |
| 8 | W | 21 | 11 | 18 | 19 0 23 | 15 8 8 | 47 | 2 27 6 | 0 | 3 46 |
| 9 | Th | 21 | 15 | 15 | 20 1 5 | 14 49 23 | 51 | 3 35 0 | 8 51 | 3 46 |
| 10 | F | 21 | 19 | 11 | 21 1 46 | 14 30 8 | 38 | 4 27 7 | 32 | 3 46 |
| 11 | S | 21 | 23 | 8 | 22 2 25 | 14 10 23 | 3 | 5 1 13 | 38 | 3 46 |
| 12 | S | 21 | 27 | 4 | 23 3 4 | 13 51 7 | m 2 | 5 16 18 | 51 | 3 46 |
| 13 | M | 21 | 31 | 1 | 24 3 41 | 13 31 20 | 34 | 5 12 22 | 56 | 3 46 |
| 14 | Tu | 21 | 34 | 57 | 25 4 17 | 13 11 3 | f 42 | 4 52 25 | 42 | 3 46 |
| 15 | W | 21 | 38 | 54 | 26 4 51 | 12 50 16 | 27 | 4 19 27 | 4 | 3 47 |
| 16 | Th | 21 | 42 | 50 | 27 5 25 | 12 20 28 | 55 | 3 33 27 | 1 | 3 47 |
| 17 | F | 21 | 46 | 47 | 28 5 57 | 12 9 11 | v 7 | 2 38 25 | 38 | 3 47 |
| 18 | S | 21 | 50 | 44 | 29 6 28 | 11 48 23 | 9 | 1 38 23 | 5 | 3 46 |
| 19 | S | 21 | 54 | 40 | 0 x 6 58 | 11 26 5 | m 4 | 0 33 19 | 34 | 3 46 |
| 20 | M | 21 | 58 | 37 | 1 7 26 | 11 5 16 | 54 | 0 N 31 | 15 17 | 3 48 |
| 21 | Tu | 22 | 2 | 33 | 2 7 52 | 10 43 28 | 42 | 1 35 10 | 27 | 3 49 |
| 22 | W | 22 | 6 | 30 | 3 8 17 | 10 22 10 | x 30 | 2 34 5 | 15 | 3 49 |
| 23 | Th | 22 | 10 | 26 | 4 8 40 | 10 0 22 | 20 | 3 27 0 | N 8 | 3 50 |
| 24 | F | 22 | 14 | 23 | 5 9 1 | 9 38 4 | r 14 | 4 12 5 | 32 | 3 50 |
| 25 | S | 22 | 18 | 19 | 6 9 20 | 9 16 16 | 14 | 4 45 10 | 47 | 3 51 |
| 26 | S | 22 | 22 | 16 | 7 9 38 | 8 53 28 | 23 | 5 6 15 | 40 | 3 52 |
| 27 | M | 22 | 26 | 13 | 8 9 53 | 8 31 10 | x 43 | 5 13 20 | 1 | 3 53 |
| 28 | Tu | 22 | 30 | 9 | 9 10 7 | 8 8 23 | 18 | 5 6 23 | 33 | 3 54 |
| 29 | W | 22 | 34 | 6 | 10 10 18 | 7 46 6 | 11 | 4 43 26 | 1 | 3 55 |

FEBRUARY XXIX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 43 | 19 8 36 | 1 8 21 | 8 8 14 | 1 8 40 | 21 8 56 | 11 = 8 |
| 4 | 0 42 | 20 0 | 1 16 | 6 44 | 1 53 | 21 2 | 10 59 |
| 7 | 0 40 | 20 22 | 1 10 | 5 12 | 2 0 | 19 55 | 10 49 |
| 10 | 0 38 | 20 44 | 1 4 | 3 39 | 2 4 | 18 36 | 10 40 |
| 13 | 0 35 | 21 3 | 0 58 | 2 6 | 2 6 | 17 3 | 10 30 |
| 16 | 0 33 | 21 22 | 0 50 | 0 31 | 2 7 | 15 17 | 10 21 |
| 19 | 0 30 | 21 40 | 0 41 | 1 N 3 | 1 57 | 13 18 | 10 11 |
| 22 | 0 28 | 21 56 | 0 32 | 2 38 | 1 44 | 11 6 | 10 1 |
| 25 | 0 25 | 22 11 | 0 23 | 4 12 | 1 28 | 8 43 | 9 52 |
| 28 | 0 23 | 22 24 | 0 14 | 5 45 | 1 11 | 6 10 | 9 42 |

| D
M | h | ■ | ♂ | ♀ | ♀ | Mutual Lunar Aspects. | | | | | |
|--------|----------|----------|-------------|---------|-------|-----------------------|---|--|---|--|---|
| | Long. | Long. | Long. | Long. | | | | | | | |
| | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 23 2 30 | 17 25 31 | 0 7 41 | 12 8 14 | | | | | | | |
| 2 | 23 3 26 | 17 32 4 | 1 17 13 | 26 | | | | | | | |
| 3 | 23 21 17 | 17 17 | 1 53 14 | 41 | | | | | | | |
| 4 | 23 16 17 | 17 11 | 2 29 15 | 51 | | | | | | | |
| 5 | 23 12 17 | 5 | 3 5 17 | 8 | | | | | | | |
| 6 | 23 7 16 | 59 | 3 41 18 | 22 | | | | | | | |
| 7 | 23 2 16 | 53 | 4 17 19 | 36 | | | | | | | |
| 8 | 23 57 16 | 47 | 4 53 20 | 50 | | | | | | | |
| 9 | 23 53 16 | 41 | 5 29 22 | 8 | | | | | | | |
| 10 | 23 48 16 | 36 | 6 5 23 | 17 | | | | | | | |
| 11 | 23 43 16 | 30 | 6 41 24 | 30 | | | | | | | |
| 12 | 23 38 16 | 25 | 7 17 25 | 43 | | | | | | | |
| 13 | 23 33 16 | 20 | 7 52 26 | 56 | | | | | | | |
| 14 | 23 29 16 | 15 | 8 28 28 | 9 | | | | | | | |
| 15 | 23 24 16 | 10 | 9 4 29 | 22 | | | | | | | |
| 16 | 23 19 16 | 6 | 9 40 36 | 0 7 36 | | | | | | | |
| 17 | 23 14 16 | 1 10 | 15 1 49 | | | | | | | | |
| 18 | 23 9 15 | 57 10 | 51 3 2 | | | | | | | | |
| 19 | 23 4 15 | 53 11 | 26 4 15 | | | | | | | | |
| 20 | 23 0 15 | 49 12 | 1 5 28 | | | | | | | | |
| 21 | 21 55 15 | 45 12 | 36 6 40 | | | | | | | | |
| 22 | 21 50 15 | 42 13 | 11 7 53 | | | | | | | | |
| 23 | 21 46 15 | 39 13 | 46 9 6 | | | | | | | | |
| 24 | 21 40 15 | 36 14 | 22 10 18 | | | | | | | | |
| 25 | 21 35 15 | 33 14 | 57 11 30 | | | | | | | | |
| 26 | 21 31 15 | 30 15 | 32 12 43 13 | 8 | | | | | | | |
| 27 | 21 26 15 | 28 16 | 7 13 56 15 | 2 | ♂ Δ ♀ | * | | | * | | * |
| 28 | 21 22 15 | 25 16 | 42 15 7 16 | 57 | ♂ □ ♂ | | ♂ | | | | |
| 29 | 21 17 15 | 23 17 | 17 16 19 18 | 52 | | □ | ♂ | | | | |

MARCH XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | |
| 1 | 16 | 9 | 0 8 | 5 | 20 N 52 | 1 N 26 | 15 N 47 | 0 N 24 | 22 N 58 |
| 4 | 16 | 8 | 0 | 5 | 20 53 | 1 26 | 15 51 | 0 24 | 22 59 |
| 7 | 16 | 8 | 0 | 5 | 20 54 | 1 26 | 15 56 | 0 24 | 22 59 |
| 10 | 16 | 7 | 0 | 5 | 20 54 | 1 26 | 15 59 | 0 24 | 23 0 |
| 13 | 16 | 6 | 0 | 5 | 20 55 | 1 26 | 16 3 | 0 25 | 23 0 |
| 16 | 16 | 6 | 0 | 5 | 20 56 | 1 26 | 16 6 | 0 25 | 22 52 |
| 19 | 16 | 4 | 0 | 5 | 20 57 | 1 26 | 16 10 | 0 25 | 22 59 |
| 22 | 16 | 4 | 0 | 5 | 20 58 | 1 26 | 16 12 | 0 25 | 22 59 |
| 25 | 16 | 3 | 0 | 5 | 21 0 | 1 26 | 16 15 | 0 25 | 22 58 |
| 28 | 16 | 2 | 0 | 5 | 21 1 | 1 26 | 16 17 | 0 25 | 22 57 |
| 31 | 16 | 1 | 0 | 5 | 21 2 | 1 26 | 16 19 | 0 25 | 22 56 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 22 38 2 | 11 10 27 | 7 5 23 | 19 11 25 | 4 N 5 | 27 N 7 | 3 11 56 |
| 2 | F | 22 41 59 | 12 10 34 | 7 0 35 | 2 3 12 | 26 38 | | 3 57 |
| 3 | S | 22 45 55 | 13 10 39 | 6 37 17 | 5 3 6 | 24 27 | | 3 58 |
| 4 | S | 22 49 52 | 14 10 42 | 6 14 15 | 12 33 | 0 50 | 20 39 | 3 59 |
| 5 | M | 22 53 48 | 15 10 43 | 5 51 16 | 24 0 8 | 31 15 | 27 4 | 0 |
| 6 | Tu | 22 57 45 | 16 10 42 | 5 27 1 | 1 11 30 | 1 51 | 9 13 | 4 2 |
| 7 | W | 23 1 42 | 17 10 38 | 5 4 16 | 45 3 4 | 2 25 | | 4 3 |
| 8 | Th | 23 5 38 | 18 10 33 | 4 41 1 | 57 4 3 | 4 S 30 | | 4 4 |
| 9 | F | 23 9 35 | 19 10 26 | 4 17 16 | 57 4 45 | 11 3 | | 4 6 |
| 10 | S | 23 13 31 | 20 10 18 | 3 54 1 | 36 6 7 | 16 50 | | 4 7 |
| 11 | S | 23 17 28 | 21 10 7 | 3 30 15 | 48 6 9 | 21 30 | | 4 9 |
| 12 | M | 23 21 24 | 22 9 55 | 3 7 29 | 31 4 53 | 24 50 | | 4 10 |
| 13 | Tu | 23 25 21 | 23 9 41 | 2 43 12 | 45 4 22 | 26 41 | | 4 12 |
| 14 | W | 23 29 17 | 24 9 25 | 2 19 25 | 33 3 39 | 27 2 | | 4 14 |
| 15 | Th | 23 33 14 | 25 9 8 | 1 56 7 | 59 2 46 | 25 59 | | 4 15 |
| 16 | F | 23 37 11 | 26 8 49 | 1 32 20 | 7 1 47 | 23 43 | | 4 17 |
| 17 | S | 23 41 7 | 27 8 28 | 1 8 2 | 4 0 44 | 20 26 | | 4 18 |
| 18 | S | 23 46 4 | 28 8 5 | 0 45 13 | 54 0 N 20 | 16 22 | | 4 20 |
| 19 | M | 23 49 0 | 29 7 41 | 0 21 25 | 40 1 22 | 11 41 | | 4 22 |
| 20 | Tu | 23 52 57 | 0 7 14 | 0 N 3 | 7 27 | 2 21 | 6 36 | 4 24 |
| 21 | W | 23 56 53 | 1 6 46 | 0 27 19 | 17 3 14 | 1 16 | | 4 26 |
| 22 | Th | 0 0 50 | 2 6 16 | 0 50 1 | 13 3 59 | 4 N 8 | | 4 28 |
| 23 | F | 0 4 46 | 3 5 43 | 1 14 13 | 16 4 34 | 9 26 | | 4 30 |
| 24 | S | 0 8 43 | 4 5 9 | 1 38 25 | 27 4 56 | 14 26 | | 4 33 |
| 25 | S | 0 12 40 | 5 4 32 | 2 1 7 | 48 5 5 | 18 55 | | 4 35 |
| 26 | M | 0 16 36 | 6 3 53 | 2 25 9 | 5 0 19 | 4 37 | | |
| 27 | Tu | 0 20 33 | 7 3 12 | 2 48 2 | 4 39 11 | | | 4 39 |
| 28 | W | 0 24 29 | 8 2 29 | 3 12 9 | 4 5 17 | | | 4 41 |
| 29 | Th | 0 28 26 | 9 1 43 | 3 35 2 | 3 16 14 | | | 4 43 |
| 30 | F | 0 32 22 | 10 0 55 | 3 58 13 | 3 16 6 | | | 4 46 |
| 31 | S | 0 36 19 | 11 0 4 | 4 21 14 | 1 6 7 | | | 4 48 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 21 | 22 S 33 | 0 S 6 | 6 N 47 | 0 S 49 | 4 S 24 | 9 m 36 |
| 4 | 0 18 | 22 45 | 0 N 4 | 8 18 | 0 19 | 1 41 | 9 26 |
| 7 | 0 15 | 22 56 | 0 14 | 9 47 | 0 N 19 | 1 N 1 | 9 17 |
| 10 | 0 12 | 23 4 | 0 25 | 11 15 | 0 59 | 3 34 | 9 7 |
| 13 | 0 8 | 23 13 | 0 36 | 12 40 | 1 36 | 5 52 | 8 58 |
| 16 | 0 4 | 23 20 | 0 47 | 14 8 | 2 12 | 7 47 | 8 48 |
| 19 | 0 0 | 23 26 | 0 58 | 15 23 | 2 47 | 9 12 | 8 39 |
| 22 | 0 S 3 | 23 30 | 1 9 | 16 39 | 3 11 | 10 2 | 8 29 |
| 25 | 0 7 | 23 34 | 1 21 | 17 53 | 3 24 | 10 15 | 8 20 |
| 28 | 0 11 | 23 37 | 1 32 | 19 2 | 3 25 | 9 49 | 8 10 |
| 31 | 0 16 | 23 39 | 1 43 | 20 7 | 3 5 | 8 51 | 8 1 |

| D
M | h | u | ♂ | ♀ | ♀ |
|--------|---------|---------|---------|---------|---------|
| | Long. | Long. | Long. | Long. | Long. |
| | ° / | ° / | ° / | ° / | ° / |
| 1 | 21 Q 13 | 15 S 21 | 17 ♀ 51 | 17 r 31 | 20 x 47 |
| 2 | 21 R 8 | 15 R 19 | 18 20 | 18 43 | 22 41 |
| 3 | 21 4 | 15 17 | 19 0 | 19 55 | 24 34 |
| 4 | 21 0 | 15 16 | 19 34 | 21 7 | 26 26 |
| 5 | 20 55 | 15 15 | 20 9 | 22 19 | 28 16 |
| 6 | 20 51 | 15 14 | 20 43 | 23 31 | 0 r 4 |
| 7 | 20 47 | 15 13 | 21 17 | 24 42 | 1 50 |
| 8 | 20 43 | 15 13 | 21 51 | 25 54 | 3 34 |
| 9 | 20 39 | 15 12 | 22 26 | 27 5 | 5 12 |
| 10 | 20 35 | 15 12 | 22 59 | 28 16 | 6 48 |
| 11 | 20 31 | 15 12 | 23 33 | 29 27 | 8 19 |
| 12 | 20 28 | 15 D 13 | 24 7 | 0 S 38 | 9 46 |
| 13 | 20 24 | 15 13 | 24 40 | 1 49 | 11 6 |
| 14 | 20 20 | 15 14 | 25 14 | 3 0 | 12 21 |
| 15 | 20 17 | 15 14 | 25 47 | 4 10 | 13 29 |
| 16 | 20 13 | 15 15 | 26 21 | 5 21 | 14 31 |
| 17 | 20 10 | 15 16 | 26 54 | 6 31 | 15 25 |
| 18 | 20 6 | 15 17 | 27 27 | 7 42 | 16 13 |
| 19 | 20 3 | 15 19 | 28 0 | 8 52 | 16 58 |
| 20 | 20 0 | 15 21 | 28 33 | 10 2 | 17 25 |
| 21 | 19 57 | 15 23 | 29 6 | 11 12 | 17 49 |
| 22 | 19 54 | 15 25 | 29 39 | 12 22 | 18 6 |
| 23 | 19 51 | 15 27 | 0 v 11 | 13 31 | 18 13 |
| 24 | 19 49 | 15 29 | 0 44 | 14 41 | 18 R 15 |
| 25 | 19 46 | 15 32 | 1 16 | 15 50 | 18 6 |
| 26 | 19 43 | 15 35 | 1 49 | 16 59 | 17 54 |
| 27 | 19 41 | 15 38 | 2 21 | 18 8 | 17 32 |
| 28 | 19 38 | 15 41 | 2 53 | 19 17 | 17 6 |
| 29 | 19 36 | 15 44 | 3 25 | 20 26 | 16 34 |
| 30 | 19 33 | 15 48 | 3 56 | 21 35 | 15 56 |
| 31 | 19 31 | 15 52 | 4 28 | 22 44 | 15 14 |

1

2

3

4

5

6

7

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 S 18 | 23 S 39 | 1 N 47 | 20 N 28 | 2 N 55 | 8 N 25 | 7 57 |
| 4 | 0 23 | 23 40 | 1 57 | 21 27 | 2 21 | 6 57 | 7 48 |
| 7 | 0 28 | 23 40 | 2 7 | 22 22 | 1 36 | 5 28 | 7 38 |
| 10 | 0 33 | 23 40 | 2 17 | 23 12 | 0 48 | 3 54 | 7 29 |
| 13 | 0 39 | 23 38 | 2 27 | 23 57 | 0 S 2 | 2 42 | 7 19 |
| 16 | 0 45 | 23 37 | 2 36 | 24 36 | 0 50 | 1 51 | 7 10 |
| 19 | 0 51 | 23 34 | 2 44 | 25 10 | 1 26 | 1 28 | 7 0 |
| 22 | 0 58 | 23 32 | 2 51 | 25 39 | 2 2 | 1 18 | 6 51 |
| 25 | 1 5 | 23 29 | 2 57 | 26 2 | 2 25 | 1 35 | 6 41 |
| 28 | 1 12 | 23 26 | 3 2 | 26 20 | 2 46 | 2 11 | 6 32 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual | | Lunar Aspects. | |
|--------|-----------|-------------|---------|-------|-------|-------|---------|---------|----------------|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | Aspects | Aspects | ♈ | ♉ |
| 1 | 19 22 29 | 15 55 56 | 4 59 23 | | | | | | | Δ |
| 2 | 19 22 16 | 0 5 30 25 | | | | | | | □ | |
| 3 | 19 25 16 | 4 6 1 26 | | | | | | | | |
| 4 | 19 24 16 | 8 6 32 27 | | | | | | | Δ | |
| 5 | 19 23 16 | 13 7 3 28 | | | | | | | | ♊ |
| 6 | 19 21 16 | 18 7 34 29 | | | | | | | | |
| 7 | 19 19 16 | 23 8 4 0 | | | | | | | | |
| 8 | 19 18 16 | 28 8 35 1 | | | | | | | | |
| 9 | 19 17 16 | 33 9 5 2 | | | | | | | ♊ | Δ |
| 10 | 19 16 16 | 38 9 35 4 | | | | | | | | |
| 11 | 19 15 16 | 44 10 5 6 | | | | | | | □ | |
| 12 | 19 14 16 | 50 10 35 6 | | | | | | | | |
| 13 | 19 13 16 | 56 11 4 7 | | | | | | | | |
| 14 | 19 12 17 | 2 11 33 8 | | | | | | | Δ | * |
| 15 | 19 11 17 | 8 12 2 9 | | | | | | | | |
| 16 | 19 11 17 | 14 12 31 10 | | | | | | | | |
| 17 | 19 10 17 | 20 12 59 11 | | | | | | | □ | |
| 18 | 19 10 17 | 27 13 28 12 | | | | | | | | |
| 19 | 19 9 17 | 34 13 56 13 | | | | | | | * | ♋ |
| 20 | 19 9 17 | 41 14 24 14 | | | | | | | | |
| 21 | 19 D 9 17 | 48 14 51 16 | | | | | | | | |
| 22 | 19 10 17 | 55 15 19 17 | | | | | | | | |
| 23 | 19 10 18 | 2 15 46 18 | | | | | | | | |
| 24 | 19 11 18 | 10 16 13 19 | | | | | | | | * |
| 25 | 19 12 18 | 17 16 39 20 | | | | | | | ♊ | |
| 26 | 19 12 18 | 25 17 6 21 | | | | | | | □ | |
| 27 | 19 13 18 | 33 17 32 22 | | | | | | | | |
| 28 | 19 14 18 | 41 17 58 23 | | | | | | | | Δ |
| 29 | 19 15 18 | 49 18 23 24 | | | | | | | * | |
| 30 | 19 16 18 | 57 18 49 25 | | | | | | | | |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200



MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 18 19 | 23 S 23 | 8 N 8 | 26 N 32 | 2 S 57 | 3 N 4 | 6 m 22 |
| 4 | 1 28 | 23 20 | 8 11 | 26 38 | 3 2 | 4 12 | 6 12 |
| 7 | 1 37 | 23 18 | 8 13 | 26 39 | 3 3 | 5 34 | 6 3 |
| 10 | 1 46 | 23 16 | 8 14 | 26 35 | 2 57 | 7 6 | 5 53 |
| 13 | 1 55 | 23 14 | 8 15 | 26 26 | 2 46 | 8 49 | 5 44 |
| 16 | 2 4 | 23 13 | 8 13 | 26 13 | 2 31 | 10 39 | 5 34 |
| 19 | 2 13 | 23 12 | 8 10 | 25 54 | 2 11 | 12 35 | 5 25 |
| 22 | 2 24 | 23 13 | 8 6 | 25 32 | 1 46 | 14 36 | 5 15 |
| 25 | 2 34 | 23 14 | 8 0 | 25 6 | 1 18 | 16 37 | 5 6 |
| 28 | 2 47 | 23 17 | 2 52 | 24 36 | 0 48 | 18 35 | 4 56 |
| 31 | 2 59 | 23 21 | 2 41 | 24 3 | 0 17 | 20 27 | 4 47 |

| D
M | h | γ | ♈ | ♉ | ♊ |
|--------|---------|--------|---------|---------|---------|
| | Long. | Long. | Long. | Long. | Long. |
| | ° | ' | ° | ' | ° |
| 1 | 19 Q 17 | 19 ♄ 5 | 19 ♃ 14 | 26 ♀ 29 | 14 ♄ 40 |
| 2 | 19 18 | 19 14 | 19 39 | 27 30 | 15 41 |
| 3 | 19 19 | 19 22 | 20 11 | 28 30 | 16 44 |
| 4 | 19 21 | 19 31 | 20 27 | 29 31 | 17 53 |
| 5 | 19 22 | 19 40 | 20 50 | 0 ♄ 31 | 19 3 |
| 6 | 19 24 | 19 49 | 31 14 | 1 30 | 20 15 |
| 7 | 19 26 | 19 58 | 1 37 | 2 29 | 21 30 |
| 8 | 19 28 | 20 7 | 2 0 | 3 28 | 22 47 |
| 9 | 19 30 | 20 16 | 2 23 | 4 26 | 24 7 |
| 10 | 19 32 | 20 26 | 2 41 | 5 24 | 25 29 |
| 11 | 19 34 | 20 35 | 2 56 | 6 21 | 26 53 |
| 12 | 19 36 | 20 45 | 2 26 | 7 18 | 28 19 |
| 13 | 19 39 | 20 54 | 2 47 | 8 14 | 29 49 |
| 14 | 19 41 | 21 4 | 2 8 | 9 10 | 1 5 20 |
| 15 | 19 44 | 21 14 | 2 28 | 10 6 | 2 53 |
| 16 | 19 46 | 21 24 | 2 47 | 11 1 | 4 29 |
| 17 | 19 49 | 21 34 | 2 6 | 11 55 | 6 7 |
| 18 | 19 52 | 21 44 | 2 25 | 12 49 | 7 47 |
| 19 | 19 55 | 21 54 | 2 43 | 13 42 | 9 29 |
| 20 | 19 58 | 22 5 | 2 14 | 14 35 | 11 13 |
| 21 | 20 1 | 22 15 | 2 17 | 15 27 | 13 0 |
| 22 | 20 4 | 22 26 | 2 34 | 16 18 | 14 46 |
| 23 | 20 8 | 22 36 | 2 50 | 17 9 | 16 39 |
| 24 | 20 11 | 22 47 | 2 6 | 17 59 | 18 31 |
| 25 | 20 15 | 22 58 | 2 21 | 18 48 | 20 27 |
| 26 | 20 18 | 23 9 | 2 35 | 19 36 | 22 24 |
| 27 | 20 22 | 23 20 | 2 49 | 20 23 | 24 23 |
| 28 | 20 26 | 23 31 | 2 3 | 21 10 | 26 24 |
| 29 | 20 30 | 23 42 | 2 16 | 21 56 | 28 27 |
| 30 | 20 34 | 23 53 | 2 29 | 22 41 | 0 31 |
| 31 | 20 38 | 24 4 | 2 40 | 23 25 | 2 36 |

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 4 | 21 N 36 | 1 N 21 | 15 N 53 | 0 N 27 | 21 N 43 |
| 4 | 15 | 48 | 0 4 | 21 38 | 1 21 | 15 49 | 0 27 | 21 37 |
| 7 | 15 | 47 | 0 4 | 21 40 | 1 21 | 15 44 | 0 27 | 21 31 |
| 10 | 15 | 47 | 0 4 | 21 41 | 1 21 | 15 40 | 0 28 | 21 25 |
| 13 | 15 | 47 | 0 4 | 21 43 | 1 21 | 15 35 | 0 28 | 21 19 |
| 16 | 15 | 46 | 0 4 | 21 45 | 1 21 | 15 29 | 0 29 | 21 11 |
| 19 | 15 | 46 | 0 4 | 21 46 | 1 21 | 15 24 | 0 29 | 21 4 |
| 22 | 15 | 46 | 0 4 | 21 48 | 1 21 | 15 19 | 0 29 | 20 57 |
| 25 | 15 | 46 | 0 4 | 21 49 | 1 21 | 15 13 | 0 29 | 20 49 |
| 28 | 15 | 46 | 0 4 | 21 51 | 1 21 | 15 7 | 0 30 | 20 41 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | F | 4 40 45 | 11 II 8 34 | 22 N 7 | 12 m 54 | 5 S 2 | 20 S 31 | 8 II 4 |
| 2 | S | 4 44 42 | 12 5 59 | 22 16 | 26 51 | 4 41 | 24 1 | 8 8 |
| 3 | S | 4 48 38 | 13 3 24 | 22 23 | 10 7 34 | 4 4 | 26 4 | 8 11 |
| 4 | M | 4 52 35 | 14 0 47 | 22 30 | 23 59 | 3 14 | 26 33 | 8 15 |
| 5 | Tu | 4 56 32 | 14 58 9 | 22 37 | 7 v 4 | 2 14 | 25 30 | 8 19 |
| 6 | W | 5 0 28 | 15 55 31 | 22 43 | 19 50 | 1 10 | 23 8 | 8 23 |
| 7 | Th | 5 4 25 | 16 52 52 | 22 49 | 2 m 18 | 0 3 | 19 43 | 8 26 |
| 8 | F | 5 8 21 | 17 50 12 | 22 54 | 14 29 | 1 N 3 | 15 30 | 8 29 |
| 9 | S | 5 12 18 | 18 47 32 | 22 59 | 26 30 | 2 5 | 10 44 | 8 33 |
| 10 | S | 5 16 14 | 19 44 51 | 23 4 | 8 x 22 | 3 1 | 5 39 | 8 36 |
| 11 | M | 5 20 11 | 20 42 10 | 23 8 | 20 13 | 3 49 | 0 22 | 8 40 |
| 12 | Tu | 5 24 7 | 21 39 29 | 23 12 | 2 r 6 | 4 27 | 4 N 55 | 8 43 |
| 13 | W | 5 28 4 | 22 36 47 | 23 15 | 14 7 | 4 54 | 10 5 | 8 47 |
| 14 | Th | 5 32 1 | 23 34 5 | 23 18 | 26 21 | 5 8 | 14 58 | 8 50 |
| 15 | F | 5 35 57 | 24 31 23 | 23 21 | 8 c 49 | 5 9 | 19 19 | 8 54 |
| 16 | S | 5 39 54 | 25 28 40 | 23 23 | 21 37 | 4 54 | 22 54 | 8 57 |
| 17 | S | 5 43 50 | 26 25 57 | 23 25 | 4 II 44 | 4 23 | 25 24 | 9 1 |
| 18 | M | 5 47 47 | 27 23 13 | 23 27 | 18 10 | 3 37 | 26 32 | 9 4 |
| 19 | Tu | 5 51 43 | 28 20 29 | 23 27 | 1 s 53 | 2 38 | 26 5 | 9 8 |
| 20 | W | 5 55 40 | 29 17 45 | 23 27 | 15 51 | 1 29 | 23 59 | 9 11 |
| 21 | Th | 5 59 36 | 0 s 15 | 0 23 | 27 0 Ω 0 | 0 12 | 20 22 | 9 15 |
| 22 | F | 6 3 33 | 1 12 15 | 23 27 | 14 16 | 1 S 5 | 15 31 | 9 18 |
| 23 | S | 6 7 30 | 2 9 29 | 23 26 | 28 34 | 2 19 | 9 48 | 9 22 |
| 24 | S | 6 11 26 | 3 6 42 | 23 25 | 12 m 52 | 3 24 | 3 35 | 9 25 |
| 25 | M | 6 15 23 | 4 3 55 | 23 24 | 27 7 | 4 17 | 2 S 47 | 9 28 |
| 26 | Tu | 6 19 19 | 5 1 8 | 23 22 | 11 n 17 | 4 53 | 8 57 | 9 33 |
| 27 | W | 6 23 16 | 5 58 20 | 23 19 | 25 20 | 5 11 | 14 38 | 9 35 |
| 28 | Th | 6 27 12 | 6 55 31 | 23 16 | 9 m 13 | 5 11 | 19 29 | 9 38 |
| 29 | F | 6 31 9 | 7 52 43 | 23 18 | 22 56 | 4 53 | 23 15 | 9 41 |
| 30 | S | 6 35 5 | 8 49 54 | 23 10 | 6 f 27 | 4 20 | 25 40 | 9 44 |

JUNE XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° | ' | ° | ' | ° | ' | ° |
| 1 | 38 8 | 23 8 23 | 2 N 37 | 23 N 53 | 0 S 5 | 21 N 2 | 4 44 |
| 4 | 3 15 | 23 28 | 2 23 | 23 16 | 0 N 28 | 22 35 | 4 34 |
| 7 | 3 28 | 23 36 | 2 7 | 22 38 | 0 57 | 23 50 | 4 24 |
| 10 | 3 40 | 23 45 | 1 49 | 21 59 | 1 21 | 24 41 | 4 15 |
| 13 | 3 53 | 23 55 | 1 28 | 21 19 | 1 41 | 25 7 | ■ 5 |
| 16 | 4 7 | 24 8 | 1 4 | 20 39 | 1 53 | 25 8 | 3 55 |
| 19 | 4 21 | 24 21 | 0 37 | 19 58 | 1 58 | 24 47 | 3 46 |
| 22 | 4 35 | 24 37 | 0 7 | 19 19 | 1 56 | 24 6 | 3 36 |
| 25 | 4 49 | 24 54 | 0 S 26 | 18 41 | 1 50 | 23 10 | 3 27 |
| 28 | 5 2 | 25 11 | 1 2 | 18 5 | 1 40 | 22 2 | 3 17 |

| D
M | h | | ♄ | | ♂ | | ♀ | | ♂ | | Mutual
Aspts. | ☾ |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-----|
| | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | Long. | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | |
| 1 | 20 42 | 24 15 | 23 51 | 34 9 | 4 46 | ♀ ♂ ♄ | | | | | | |
| 2 | 20 46 | 24 27 | 29 1 | 24 51 | 6 56 | | | | | | | |
| 3 | 20 50 | 24 38 | 29 11 | 25 32 | 9 6 | ♀ ♂ ♄ | | | | | | |
| 4 | 20 54 | 24 50 | 29 20 | 26 12 | 11 17 | ☉ ☐ ♂ | | | | | | |
| 5 | 20 58 | 25 1 | 29 29 | 26 50 | 13 28 | | | | | | | |
| 6 | 21 3 | 25 13 | 29 37 | 27 28 | 15 40 | | | | ♂ | | | |
| 7 | 21 8 | 25 25 | 29 44 | 28 5 | 17 52 | | | | ♂ | ♂ | | |
| 8 | 21 13 | 25 37 | 29 50 | 28 40 | 20 3 | | | | ♂ | | | |
| 9 | 21 18 | 25 49 | 29 56 | 29 14 | 22 15 | ♀ * h | Δ | ■ | ♂ | | | Δ |
| 10 | 21 23 | 26 1 | 0 1 | 29 40 | 24 26 | | | ☐ | | | | |
| 11 | 21 28 | 26 13 | 0 8 | 0 18 | 26 36 | ♀ ♂ ♂ | ☐ | | | | | |
| 12 | 21 33 | 26 25 | 0 9 | 0 48 | 28 45 | ☉ * h | | | | Δ | * | Δ ☐ |
| 13 | 21 38 | 26 37 | 0 12 | 1 16 | 0 52 | | | * | | Δ | ☐ | ■ |
| 14 | 21 43 | 26 49 | 0 14 | 1 43 | 2 57 | | | * | | Δ | ☐ | ■ |
| 15 | 21 48 | 27 1 | 0 15 | 2 8 | 5 1 | | | | | | | * |
| 16 | 21 53 | 27 13 | 0 16 | 2 31 | 7 3 | ♀ ♄ h | | | ♂ | * | | |
| 17 | 21 58 | 27 25 | 0 16 | 2 53 | 9 2 | | | | ♂ | * | | Δ ■ |
| 18 | 22 3 | 27 37 | 0 15 | 3 13 | 11 1 | | | | | * | | |
| 19 | 22 8 | 27 49 | 0 14 | 3 31 | 12 56 | | | | ♂ | | | |
| 20 | 22 14 | 28 2 | 0 11 | 3 47 | 14 50 | | | | | | | ♂ |
| 21 | 22 20 | 28 14 | 0 8 | 4 2 | 16 42 | | | | | * | ♂ | ♂ |
| 22 | 22 26 | 28 27 | 0 4 | 4 15 | 18 31 | | | | * | * | ♂ | ♂ |
| 23 | 22 31 | 28 39 | 29 59 | 4 25 | 20 18 | | | * | | ♂ | | |
| 24 | 22 37 | 28 52 | 29 54 | 4 33 | 22 3 | | | ☐ | | * | Δ | * |
| 25 | 22 43 | 29 4 | 29 48 | 4 38 | 23 46 | | | | | | | |
| 26 | 22 49 | 29 17 | 29 41 | 4 42 | 25 26 | | | ☐ | Δ | * | | * |
| 27 | 22 55 | 29 30 | 29 34 | 4 43 | 27 4 | ♂ ♂ ♄ | | | * | ■ | ☐ | ■ |
| 28 | 23 1 | 29 43 | 29 26 | 4 42 | 28 40 | ♀ ♂ ♂ | Δ | | | | * | ■ |
| 29 | 23 7 | 29 56 | 29 17 | 4 39 | 0 14 | ♀ ♂ ♄ | | | | ☐ | * | Δ |
| 30 | 23 14 | 0 9 | 29 7 | 4 34 | 1 45 | | | | ♂ | | Δ | Δ |

JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 45 | 0 S 4 | 21 N 52 | 1 N 21 | 15 N 1 | 0 N 30 | 20 N 33 |
| 4 | 15 | 45 | 0 4 | 21 54 | 1 21 | 14 45 | 0 30 | 20 25 |
| 7 | 15 | 45 | 0 4 | 21 55 | 1 21 | 14 48 | 0 30 | 20 17 |
| 10 | 15 | 45 | 0 4 | 21 56 | 1 21 | 14 41 | 0 30 | 20 8 |
| 13 | 15 | 45 | 0 8 | 21 58 | 1 21 | 14 34 | 0 30 | 19 59 |
| 16 | 15 | 46 | 0 8 | 21 59 | 1 21 | 14 28 | 0 30 | 19 50 |
| 19 | 15 | 46 | 0 8 | 22 0 | 1 21 | 14 21 | 0 30 | 19 41 |
| 22 | 15 | 46 | 0 8 | 22 1 | 1 21 | 14 13 | 0 31 | 19 32 |
| 25 | 15 | 46 | 0 8 | 22 2 | 1 21 | 14 6 | 0 31 | 19 23 |
| 28 | 15 | 47 | 0 8 | 22 3 | 1 21 | 13 59 | 0 31 | 19 13 |
| 31 | 15 | 47 | 0 3 | 22 4 | 1 21 | 13 51 | 0 31 | 19 3 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | S | 6 39 2 | 9 54 47 | 4 23 N 1 | 19 44 | 3 S 32 | 26 S 35 | 9 47 |
| 2 | M | 6 42 59 | 10 44 15 | 23 6 | 2 46 | 2 34 | 26 0 | 9 50 |
| 3 | Tu | 6 46 55 | 11 41 25 | 22 57 | 15 33 | 1 30 | 24 2 | 9 54 |
| 4 | W | 6 50 52 | 12 38 36 | 22 54 | 28 6 | 0 22 | 20 55 | 9 57 |
| 5 | Th | 6 54 48 | 13 35 47 | 22 46 | 10 24 | 0 N 46 | 16 54 | 10 0 |
| 6 | F | 6 58 45 | 14 32 57 | 22 40 | 22 81 | 1 51 | 12 16 | 10 3 |
| 7 | S | 7 2 41 | 15 30 9 | 22 33 | 4 29 | 2 50 | 7 14 | 10 6 |
| 8 | S | 7 6 38 | 16 27 20 | 22 27 | 16 21 | 3 41 | 1 59 | 10 9 |
| 9 | M | 7 10 35 | 17 24 32 | 22 19 | 28 12 | 4 23 | 3 N 18 | 10 13 |
| 10 | Tu | 7 14 31 | 18 21 45 | 22 12 | 10 6 | 4 53 | 8 30 | 10 15 |
| 11 | W | 7 18 28 | 19 18 58 | 22 4 | 22 7 | 5 12 | 13 26 | 10 18 |
| 12 | Th | 7 22 24 | 20 16 11 | 21 56 | 4 20 | 5 16 | 17 56 | 10 21 |
| 13 | F | 7 26 21 | 21 13 26 | 21 47 | 16 49 | 5 6 | 21 46 | 10 24 |
| 14 | S | 7 30 17 | 22 10 41 | 21 38 | 29 39 | 4 41 | 24 40 | 10 27 |
| 15 | S | 7 34 14 | 23 7 56 | 21 28 | 12 50 | 4 0 | 26 19 | 10 29 |
| 16 | M | 7 38 10 | 24 5 12 | 21 19 | 26 26 | 3 5 | 26 29 | 10 32 |
| 17 | Tu | 7 42 7 | 25 2 29 | 21 8 | 10 24 | 1 57 | 25 0 | 10 35 |
| 18 | W | 7 46 3 | 25 59 46 | 20 58 | 24 41 | 0 41 | 21 52 | 10 38 |
| 19 | Th | 7 50 0 | 26 57 4 | 20 47 | 9 14 | 0 S 40 | 17 19 | 10 40 |
| 20 | F | 7 53 57 | 27 54 22 | 20 36 | 23 56 | 1 59 | 11 41 | 10 43 |
| 21 | S | 7 57 53 | 28 51 40 | 20 24 | 8 40 | 3 10 | 5 24 | 10 45 |
| 22 | S | 8 1 50 | 29 48 59 | 20 12 | 23 19 | 4 8 | 1 8 | 10 48 |
| 23 | M | 8 5 46 | 0 46 19 | 20 0 | 7 49 | 4 49 | 7 32 | 10 50 |
| 24 | Tu | 8 9 43 | 1 43 39 | 19 47 | 22 6 | 5 13 | 13 22 | 10 53 |
| 25 | W | 8 13 39 | 2 40 59 | 19 35 | 6 6 | 5 16 | 18 32 | 10 55 |
| 26 | Th | 8 17 36 | 3 38 20 | 19 21 | 19 49 | 5 2 | 22 33 | 10 58 |
| 27 | F | 8 21 33 | 4 35 41 | 19 8 | 3 16 | 4 32 | 25 16 | 11 0 |
| 28 | S | 8 25 29 | 5 33 8 | 18 54 | 16 26 | 3 47 | 26 32 | 11 3 |
| 29 | S | 8 29 26 | 6 30 25 | 18 40 | 29 20 | 2 52 | 26 19 | 11 5 |
| 30 | M | 8 33 22 | 7 27 48 | 18 25 | 12 1 | 1 49 | 24 43 | 11 7 |
| 31 | Tu | 8 37 19 | 8 25 12 | 18 10 | 24 29 | 0 42 | 21 56 | 11 9 |

JULY XXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 5 8 14 | 25 S 30 | 1 8 41 | 17 N 31 | 1 N 20 | 20 N 44 | 8 m 8 |
| 4 | 5 26 | 25 49 | 2 23 | 17 0 | 0 58 | 19 20 | 2 58 |
| 7 | 5 38 | 26 8 | 3 6 | 16 32 | 0 30 | 17 52 | 2 49 |
| 10 | 5 48 | 26 27 | 3 49 | 16 8 | 0 S 59 | 16 23 | 2 39 |
| 13 | 5 56 | 26 45 | 4 29 | 15 48 | 0 36 | 14 56 | 2 30 |
| 16 | 6 3 | 27 2 | 5 6 | 15 22 | 0 20 | 13 23 | 2 20 |
| 19 | 6 10 | 27 18 | 5 39 | 14 53 | 0 4 | 11 54 | 2 11 |
| 22 | 6 15 | 27 32 | 6 7 | 14 21 | 0 18 | 10 26 | 2 1 |
| 25 | 6 18 | 27 43 | 6 30 | 13 44 | 0 52 | 8 59 | 1 52 |
| 28 | 6 20 | 27 53 | 6 46 | 13 1 | 1 26 | 7 31 | 1 42 |
| 31 | 6 21 | 27 59 | 6 54 | 12 24 | 1 59 | 6 4 | 1 33 |

[illegible]

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 3 | 22 N 5 | 1 N 21 | 13 N 49 | 0 N 32 | 19 N 0 |
| 4 | 15 | 48 | 0 3 | 22 5 | 1 21 | 13 41 | 0 32 | 18 50 |
| 7 | 15 | 49 | 0 3 | 22 6 | 1 21 | 13 34 | 0 32 | 18 40 |
| 10 | 15 | 49 | 0 3 | 22 7 | 1 21 | 13 26 | 0 32 | 18 30 |
| 13 | 15 | 50 | 0 3 | 22 8 | 1 21 | 13 18 | 0 32 | 18 19 |
| 16 | 15 | 50 | 0 3 | 22 9 | 1 21 | 13 10 | 0 33 | 18 9 |
| 19 | 15 | 51 | 0 3 | 22 9 | 1 21 | 13 2 | 0 33 | 17 59 |
| 22 | 15 | 51 | 0 3 | 22 10 | 1 21 | 12 55 | 0 33 | 17 48 |
| 25 | 15 | 52 | 0 3 | 22 10 | 1 21 | 12 47 | 0 33 | 17 38 |
| 28 | 15 | 53 | 0 3 | 22 11 | 1 22 | 12 39 | 0 34 | 17 27 |
| 31 | 15 | 53 | 0 3 | 22 11 | 1 22 | 12 31 | 0 34 | 17 17 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♄
Long. | ♄
Lat. | ♄
Declin | ♅
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° / " | ° / | ° / | ° / | ° / | ° / |
| 1 | W | 8 41 15 | 9 Ω 22 37 | 17 N 55 | 6 ♍ 47 | 0 N 26 | 18 S 10 | 11 ♏ 11 |
| 2 | Th | 8 45 12 | 10 20 2 | 17 40 | 18 54 | 1 32 | 13 43 | 11 14 |
| 3 | F | 8 49 8 | 11 17 29 | 17 24 | 0 ♋ 54 | 2 33 | 8 46 | 11 16 |
| 4 | S | 8 53 5 | 12 14 56 | 17 8 | 12 49 | 3 27 | 3 34 | 11 18 |
| 5 | S | 8 57 1 | 13 12 25 | 16 52 | 24 40 | 4 12 | 1 N 44 | 11 20 |
| 6 | M | 9 0 58 | 14 9 5 | 16 36 | 6 ♊ 30 | 4 45 | 6 57 | 11 22 |
| 7 | Tu | 9 4 55 | 15 7 26 | 16 19 | 18 24 | 5 7 | 11 57 | 11 24 |
| 8 | W | 9 8 51 | 16 4 59 | 16 2 | 0 ♏ 24 | 5 16 | 16 33 | 11 26 |
| 9 | Th | 9 12 48 | 17 2 33 | 15 44 | 12 35 | 5 11 | 20 33 | 11 28 |
| 10 | F | 9 16 44 | 18 0 9 | 15 27 | 25 2 | 4 51 | 23 44 | 11 30 |
| 11 | S | 9 20 41 | 18 57 46 | 15 9 | 7 ♏ 48 | 4 16 | 25 50 | 11 31 |
| 12 | S | 9 24 37 | 19 55 24 | 14 51 | 20 57 | 3 28 | 26 36 | 11 33 |
| 13 | M | 9 28 34 | 20 53 4 | 14 33 | 4 ♏ 31 | 2 26 | 25 49 | 11 35 |
| 14 | Tu | 9 32 31 | 21 50 46 | 14 14 | 18 32 | 1 14 | 23 23 | 11 36 |
| 15 | W | 9 36 27 | 22 48 29 | 13 55 | 2 Ω 58 | 0 S 5 | 19 26 | 11 38 |
| 16 | Th | 9 40 24 | 23 46 13 | 13 36 | 17 45 | 1 26 | 14 10 | 11 39 |
| 17 | F | 9 44 20 | 24 43 59 | 13 17 | 2 ♏ 46 | 2 41 | 7 59 | 11 41 |
| 18 | S | 9 48 17 | 25 41 46 | 12 58 | 17 52 | 3 46 | 1 20 | 11 42 |
| 19 | S | 9 52 13 | 26 39 34 | 12 38 | 2 ♏ 54 | 4 35 | 5 S 21 | 11 44 |
| 20 | M | 9 56 10 | 27 37 24 | 12 18 | 17 44 | 5 4 | 11 39 | 11 45 |
| 21 | Tu | 10 0 6 | 28 35 15 | 11 58 | 2 ♏ 15 | 5 14 | 17 10 | 11 47 |
| 22 | W | 10 4 3 | 29 33 7 | 11 38 | 16 22 | 5 4 | 21 35 | 11 48 |
| 23 | Th | 10 8 0 | 0 ♏ 31 0 | 11 18 | 0 ♏ 5 | 4 36 | 24 41 | 11 50 |
| 24 | F | 10 11 56 | 1 28 54 | 10 57 | 13 25 | 3 55 | 26 19 | 11 51 |
| 25 | S | 10 15 53 | 2 26 50 | 10 37 | 26 23 | 3 2 | 26 26 | 11 52 |
| 26 | S | 10 19 49 | 3 24 47 | 10 16 | 9 ♏ 3 | 2 1 | 25 10 | 11 53 |
| 27 | M | 10 23 46 | 4 22 46 | 9 55 | 21 28 | 0 56 | 22 40 | 11 54 |
| 28 | Tu | 10 27 42 | 5 20 43 | 9 34 | 3 ♏ 41 | 0 N 10 | 19 11 | 11 55 |
| 29 | W | 10 31 39 | 6 18 47 | 9 12 | 15 46 | 1 15 | 14 53 | 11 56 |
| 30 | Th | 10 35 35 | 7 16 50 | 8 51 | 27 44 | 2 17 | 10 8 | 11 57 |
| 31 | F | 10 39 32 | 8 14 54 | 8 29 | 9 ♏ 38 | 3 11 | 5 1 | 11 58 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 6 S 20 | 28 S 1 | 6 S 56 | 15 N 10 | 4 S 30 | 9 N 21 | 1 m 30 |
| 4 | 6 18 | 28 5 | 6 57 | 15 16 | 5 0 | 9 35 | 1 20 |
| 7 | 6 14 | 28 6 | 6 52 | 15 23 | 4 53 | 10 12 | 1 11 |
| 10 | 6 9 | 28 5 | 6 44 | 15 33 | 4 37 | 11 7 | 1 1 |
| 13 | 6 4 | 28 2 | 6 32 | 15 42 | 4 12 | 12 14 | 0 51 |
| 16 | 5 57 | 27 57 | 6 17 | 15 52 | 3 24 | 13 23 | 0 42 |
| 19 | 5 50 | 27 50 | 6 1 | 16 1 | 2 42 | 14 24 | 0 32 |
| 22 | 5 42 | 27 41 | 5 43 | 16 9 | 1 49 | 15 11 | 0 23 |
| 25 | 5 33 | 27 30 | 5 23 | 16 16 | 0 56 | 15 36 | 0 13 |
| 28 | 5 24 | 27 18 | 5 2 | 16 20 | 0 50 | 15 36 | 0 4 |
| 31 | 5 15 | 27 5 | 4 41 | 16 21 | 0 N 36 | 15 7 | 29 w 54 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|------------|-----------|-----------|-----------|------------------|----------------|---|---|-----|-------|-----|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 26 Ω 53 | 7 Ω 8 21 w | 13 19 | ♈ 34 23 | Ω 49 | | ♈ | Δ | | ♈ | | |
| 2 | 27 0 | 7 22 21 R | 1 19 | ♈ 16 23 | R 21 | | | | | | | ♈ |
| 3 | 27 8 | 7 35 20 | 49 19 | 0 22 | 48 | ☉ * ♈ | | | ♈ | | | |
| 4 | 27 15 7 | 49 20 | 38 18 | 47 22 | 11 | | | ☐ | | | | Δ |
| 5 | 27 23 | 8 2 20 | 27 18 | 35 21 | 30 | | | | | | * | |
| 6 | 27 30 | 8 15 20 | 17 18 | 26 20 | 46 | | | * | | Δ | | |
| 7 | 27 38 | 8 29 20 | 8 18 | 20 19 | 59 | | Δ | | | | ☐ | ☐ Δ |
| 8 | 27 46 | 8 42 20 | 0 18 | 17 19 | 11 | | | | Δ | | | |
| 9 | 27 53 | 8 55 19 | 52 18 | 14 18 | 22 | | ☐ | | | ☐ | * | ☐ |
| 10 | 28 1 | 9 8 19 | 45 18 | D 15 17 | 34 | ☉ ☽ ♋ | | | ☐ | | Δ | |
| 11 | 28 9 | 9 21 19 | 39 18 | 18 16 | 46 | | | ♈ | | * | | |
| 12 | 28 16 | 9 34 19 | 34 18 | 23 16 | 0 | | * | | | | | * |
| 13 | 28 24 | 9 48 19 | 29 18 | 31 15 | 19 | | | | * | | | |
| 14 | 28 31 10 | 1 19 | 25 18 | 41 14 | 38 | | | | | | ♈ ☽ | |
| 15 | 28 39 10 | 14 19 | 22 18 | 52 14 | 4 | | | | | | | |
| 16 | 28 46 10 | 27 19 | 20 19 | 6 13 | 35 | | ♈ | * | | ♈ | | ♈ |
| 17 | 28 53 10 | 40 19 | 19 19 | 22 13 | 12 | ♀ ♈ ♈ | | | ♈ | | | |
| 18 | 29 1 10 | 53 19 | 18 19 | 40 12 | 55 | | | ☐ | | | Δ * | |
| 19 | 29 9 11 | 6 19 | 18 19 | 59 12 | 46 | | | | | | | |
| 20 | 29 16 11 | 19 19 | D 19 20 | 20 12 | D 45 | | | Δ | | * | ☐ ☐ * | |
| 21 | 29 24 11 | 32 19 | 21 20 | 43 12 | 51 | | * | | * | | | |
| 22 | 29 32 11 | 45 19 | 24 21 | 8 13 | 5 | ☉ ☽ ♈ | | | | ☐ * | Δ ☐ | |
| 23 | 29 39 11 | 58 19 | 28 21 | 34 13 | 26 | | ☐ | | ☐ | | | |
| 24 | 29 47 12 | 11 19 | 33 22 | 2 13 | 55 | | | ♈ | | Δ | | Δ |
| 25 | 29 55 12 | 23 19 | 38 22 | 32 14 | 33 | | Δ | | Δ | | | |
| 26 | 0 w 2 12 | 36 19 | 44 23 | 3 15 | 18 | | | | | | ♈ ♈ | |
| 27 | 0 10 12 | 49 19 | 51 23 | 35 16 | 11 | | | | | | | |
| 28 | 0 18 13 | 2 19 | 59 24 | 9 17 | 11 | ☉ ☐ ♈ | | | | | | |
| 29 | 0 25 13 | 14 20 | 7 24 | 44 18 | 17 | | | Δ | | ♈ | | ♈ |
| 30 | 0 33 13 | 27 20 | 16 25 | 20 19 | 30 | | | | ♈ | | | |
| 31 | 0 41 13 | 40 20 | 26 25 | 57 20 | 49 | | ♈ | ☐ | | | | |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 S 3 | 22 N 11 | 1 N 22 | 12 N 28 | 0 N 34 | 17 N 13 |
| 4 | 15 | 54 | 0 3 | 22 12 | 1 22 | 12 21 | 0 34 | 17 3 |
| 7 | 15 | 54 | 0 3 | 22 12 | 1 22 | 12 13 | 0 35 | 16 52 |
| 10 | 15 | 55 | 0 3 | 22 12 | 1 23 | 12 5 | 0 35 | 16 42 |
| 13 | 15 | 56 | 0 3 | 22 12 | 1 23 | 11 57 | 0 35 | 16 32 |
| 16 | 15 | 56 | 0 3 | 22 12 | 1 23 | 11 50 | 0 36 | 16 21 |
| 19 | 15 | 57 | 0 3 | 22 12 | 1 24 | 11 42 | 0 36 | 16 11 |
| 22 | 15 | 58 | 0 3 | 22 12 | 1 24 | 11 35 | 0 37 | 16 0 |
| 25 | 15 | 59 | 0 3 | 22 12 | 1 25 | 11 27 | 0 37 | 15 50 |
| 28 | 16 | 0 | 0 3 | 22 12 | 1 25 | 11 20 | 0 38 | 15 40 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | | | ☉
Declin | | | ♂
Long. | | | ♂
Lat. | | | ♂
Declin | | | ♂
Long. | | |
|--------|--------|-------------------|----|----|------------|---|-------|-------------|---|----|------------|---|----|-----------|---|----|-------------|---|----|------------|---|----|
| | | H. | M. | S. | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " |
| 1 | S | 10 | 43 | 28 | 9 | m | 13 0 | 8 | N | 7 | 21 | x | 29 | 3 | N | 57 | 0 | N | 15 | 11 | h | 59 |
| 2 | S | 10 | 47 | 25 | 10 | | 11 8 | 7 | | 45 | 3 | r | 20 | 4 | | 33 | 5 | | 30 | 12 | | 0 |
| 3 | M | 10 | 51 | 22 | 11 | | 9 17 | 7 | | 23 | 15 | | 12 | 4 | | 57 | 10 | | 33 | 12 | | 1 |
| 4 | Tu | 10 | 55 | 18 | 12 | | 7 29 | 7 | | 1 | 27 | | 8 | 5 | | 8 | 15 | | 15 | 12 | | 2 |
| 5 | W | 10 | 59 | 15 | 13 | | 5 42 | 6 | | 39 | 9 | x | 10 | 5 | | 6 | 19 | | 23 | 12 | | 2 |
| 6 | Th | 11 | 3 | 11 | 14 | | 3 58 | 6 | | 16 | 21 | | 21 | 4 | | 50 | 22 | | 47 | 12 | | 3 |
| 7 | F | 11 | 7 | 8 | 15 | | 2 16 | 5 | | 54 | 3 | h | 46 | 4 | | 20 | 25 | | 11 | 12 | | 3 |
| 8 | S | 11 | 11 | 4 | 16 | | 0 35 | 5 | | 31 | 16 | | 27 | 3 | | 37 | 26 | | 22 | 12 | | 3 |
| 9 | S | 11 | 15 | 1 | 16 | | 58 57 | 5 | | 9 | 29 | | 29 | 2 | | 42 | 26 | | 9 | 12 | | 4 |
| 10 | M | 11 | 18 | 58 | 17 | | 57 21 | 4 | | 46 | 12 | h | 56 | 1 | | 36 | 24 | | 26 | 12 | | 4 |
| 11 | Tu | 11 | 22 | 54 | 18 | | 55 47 | 4 | | 23 | 26 | | 50 | 0 | | 23 | 21 | | 11 | 12 | | 4 |
| 12 | W | 11 | 26 | 51 | 19 | | 54 15 | 4 | | 0 | 11 | h | 11 | 0 | S | 54 | 16 | | 34 | 12 | | 4 |
| 13 | Th | 11 | 30 | 47 | 20 | | 52 45 | 3 | | 37 | 25 | | 57 | 2 | | 10 | 10 | | 50 | 12 | | 5 |
| 14 | F | 11 | 34 | 44 | 21 | | 51 17 | 3 | | 14 | 11 | m | 3 | 3 | | 18 | 4 | | 22 | 12 | | 5 |
| 15 | S | 11 | 38 | 40 | 22 | | 49 51 | 2 | | 51 | 26 | | 20 | 4 | | 13 | 2 | S | 24 | 12 | | 5 |
| 16 | S | 11 | 42 | 37 | 23 | | 48 27 | 2 | | 28 | 11 | h | 36 | 4 | | 49 | 9 | | 2 | 12 | | 6 |
| 17 | M | 11 | 46 | 33 | 24 | | 47 5 | 2 | | 4 | 26 | | 42 | 5 | | 5 | 15 | | 2 | 12 | | 6 |
| 18 | Tu | 11 | 50 | 30 | 25 | | 45 45 | 1 | | 41 | 11 | m | 27 | 5 | | 0 | 20 | | 2 | 12 | h | 5 |
| 19 | W | 11 | 54 | 27 | 26 | | 44 27 | 1 | | 18 | 25 | | 46 | 4 | | 37 | 23 | | 41 | 12 | | 5 |
| 20 | Th | 11 | 58 | 23 | 27 | | 43 10 | 0 | | 54 | 9 | h | 37 | 3 | | 57 | 25 | | 49 | 12 | | 5 |
| 21 | F | 12 | 2 | 20 | 28 | | 41 55 | 0 | | 31 | 22 | | 58 | 3 | | 6 | 26 | | 22 | 12 | | 5 |
| 22 | S | 12 | 6 | 16 | 29 | | 40 42 | 0 | | 8 | 5 | w | 54 | 2 | | 7 | 25 | | 26 | 12 | | 4 |
| 23 | S | 12 | 10 | 13 | 0 | h | 39 30 | 0 | S | 16 | 18 | | 28 | 1 | | 3 | 23 | | 13 | 12 | | 4 |
| 24 | M | 12 | 14 | 9 | 1 | | 38 20 | 0 | | 39 | 0 | m | 46 | 0 | N | 3 | 19 | | 58 | 12 | | 4 |
| 25 | Tu | 12 | 18 | 6 | 2 | | 37 12 | 1 | | 3 | 12 | | 50 | 1 | | 7 | 15 | | 54 | 12 | | 3 |
| 26 | W | 12 | 22 | 2 | 3 | | 36 5 | 1 | | 26 | 24 | | 47 | 2 | | 7 | 11 | | 17 | 12 | | 3 |
| 27 | Th | 12 | 25 | 59 | 4 | | 35 1 | 1 | | 49 | 6 | x | 39 | 3 | | 1 | 6 | | 16 | 12 | | 2 |
| 28 | F | 12 | 29 | 55 | 5 | | 33 58 | 2 | | 13 | 18 | | 30 | 3 | | 47 | 1 | | 4 | 12 | | 2 |
| 29 | S | 12 | 33 | 52 | 6 | | 32 57 | 2 | | 36 | 0 | r | 21 | 4 | | 23 | 4 | N | 10 | 12 | | 1 |
| 30 | S | 12 | 37 | 49 | 7 | | 31 58 | 2 | | 59 | 12 | | 14 | 4 | | 48 | 9 | | 15 | 12 | | 1 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 58 12 | 27 8 0 | 48 35 | 16 N 21 | 0 N 47 | 14 N 51 | 29 W 51 |
| 5 | 5 2 | 26 45 | 4 14 | 16 18 | 1 14 | 13 44 | 29 41 |
| 7 | 4 52 | 26 28 | 3 52 | 16 12 | 1 36 | 12 12 | 29 32 |
| 10 | 4 43 | 26 11 | 3 31 | 16 2 | 1 44 | 10 21 | 29 22 |
| 13 | 4 33 | 26 51 | 3 9 | 15 48 | 1 49 | 8 16 | 29 13 |
| 16 | 4 24 | 25 31 | 2 48 | 15 30 | 1 45 | 6 0 | 29 3 |
| 19 | 4 14 | 25 10 | 2 28 | 15 8 | 1 37 | 3 40 | 28 54 |
| 22 | 4 5 | 24 47 | 2 8 | 14 41 | 1 26 | 1 18 | 28 44 |
| 25 | 3 56 | 24 22 | 1 48 | 14 11 | 1 11 | 13 4 | 28 35 |
| 28 | 3 46 | 23 57 | 1 29 | 13 36 | 0 54 | 8 23 | 28 25 |

| D
M | ♂
Long. | ♂
Long. | ♂
Long. | ♀
Long. | ♀
Long. | Mutual
Aspta. |
|--------|------------|------------|------------|------------|------------|------------------|
| | ° | ' | ° | ' | ° | ' |
| 1 | 0 48 | 13 52 | 20 W 37 | 26 36 | 22 13 | |
| 2 | 0 56 | 14 5 20 | 40 27 | 16 23 | 43 | |
| 3 | 1 8 | 14 17 21 | 1 27 | 57 25 | 17 | |
| 4 | 1 11 | 14 30 21 | 14 28 | 39 26 | 55 | ☉ ☐ ♀ |
| 5 | 1 18 | 14 43 21 | 27 29 | 22 28 | 37 | |
| 6 | 1 26 | 14 56 21 | 41 0 2 | 6 0 21 | | |
| 7 | 1 33 | 15 7 21 | 56 0 | 51 2 | 8 | ♀ ♂ ♀ |
| 8 | 1 41 | 15 20 22 | 12 1 | 37 3 | 57 | |
| 9 | 1 48 | 15 32 22 | 28 2 | 24 5 | 48 | |
| 10 | 1 56 | 15 44 22 | 45 3 | 12 7 | 39 | |
| 11 | 2 3 | 15 56 23 | 3 4 | 0 9 | 32 | |
| 12 | 2 11 | 16 8 23 | 21 4 | 49 11 | 25 | ♀ ☐ ♀ |
| 13 | 2 18 | 16 20 23 | 40 5 | 39 13 | 18 | |
| 14 | 2 26 | 16 32 23 | 59 6 | 30 15 | 11 | |
| 15 | 2 33 | 16 44 24 | 19 7 | 21 17 | 4 | |
| 16 | 2 40 | 16 56 24 | 40 8 | 13 18 | 57 | |
| 17 | 2 48 | 17 7 25 | 1 9 | 6 20 | 49 | ♂ Δ ☉ |
| 18 | 2 55 | 17 19 25 | 22 10 | 0 22 | 41 | |
| 19 | 3 2 | 17 30 25 | 44 10 | 54 24 | 32 | |
| 20 | 3 9 | 17 42 26 | 7 11 | 49 26 | 22 | ♀ * ♀ |
| 21 | 3 16 | 17 54 26 | 30 12 | 44 28 | 12 | |
| 22 | 3 23 | 18 6 26 | 54 13 | 40 0 1 | 1 | ☉ ♂ ♀ |
| 23 | 3 30 | 18 17 27 | 18 14 | 36 1 | 48 | |
| 24 | 3 37 | 18 28 27 | 43 15 | 33 3 | 35 | ♀ ∠ ♀ |
| 25 | 3 44 | 18 39 28 | 8 16 | 30 5 | 21 | |
| 26 | 3 51 | 18 50 28 | 34 17 | 28 7 | 6 | ☉ ∠ ♀ |
| 27 | 3 58 | 19 1 29 | 0 18 | 26 8 | 50 | |
| 28 | 4 5 | 19 12 29 | 26 19 | 25 10 | 33 | |
| 29 | 4 12 | 19 23 29 | 53 20 | 24 12 | 16 | ♀ Δ ♀ |
| 30 | 4 19 | 19 34 0 20 | 21 23 | 13 57 | | |

OCTOBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|---|-----------|---------|---------|---------|----------|---------|
| | ' | " | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| 1 | 16 | 1 | 0 S 3 | 22 N 12 | 1 N 26 | 11 N 13 | 0 N 39 | 15 N 31 |
| 4 | 16 | 2 | 0 8 | 22 11 | 1 26 | 11 6 | 0 39 | 15 21 |
| 7 | 16 | 3 | 0 3 | 22 11 | 1 26 | 10 59 | 0 39 | 15 11 |
| 10 | 16 | 4 | 0 3 | 22 11 | 1 27 | 10 53 | 0 40 | 15 1 |
| 18 | 16 | 5 | 0 3 | 22 10 | 1 27 | 10 46 | 0 40 | 14 5 |
| 16 | 16 | 5 | 0 3 | 22 10 | 1 28 | 10 40 | 0 41 | 14 4 |
| 19 | 16 | 6 | 0 3 | 22 9 | 1 28 | 10 34 | 0 41 | 14 3 |
| 22 | 16 | 7 | 0 3 | 22 8 | 1 29 | 10 28 | 0 42 | 14 2 |
| 25 | 16 | 8 | 0 3 | 22 8 | 1 29 | 10 23 | 0 42 | 14 1 |
| 28 | 16 | 9 | 0 3 | 22 7 | 1 30 | 10 17 | 0 43 | 14 1 |
| 31 | 16 | 9 | 0 3 | 22 6 | 1 30 | 10 12 | 0 43 | 14 1 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° / " | ° / " | ° / " | ° / " | ° / " | ° |
| 1 | M | 12 | 41 | 45 | 8 31 2 | 3 S 23 | 24 r 11 | 5 N 0 | 14 N 2 | 12 1 |
| 2 | Tu | 12 | 45 | 42 | 9 30 7 | 3 46 | 6 s 14 | 4 59 | 18 18 | 12 1 |
| 3 | W | 12 | 49 | 38 | 10 29 15 | 4 9 | 18 22 | 4 44 | 21 52 | 11 1 |
| 4 | Th | 12 | 53 | 35 | 11 28 24 | 4 32 | 0 139 | 4 17 | 24 29 | 11 1 |
| 5 | F | 12 | 57 | 31 | 12 27 36 | 4 56 | 13 7 | 3 36 | 25 58 | 11 1 |
| 6 | S | 13 | 1 | 28 | 13 26 51 | 5 19 | 25 49 | 2 44 | 26 8 | 11 1 |
| 7 | S | 13 | 5 | 24 | 14 26 7 | 5 42 | 8 s 48 | 1 43 | 24 53 | 11 1 |
| 8 | M | 13 | 9 | 21 | 15 25 27 | 6 5 | 22 7 | 0 35 | 22 13 | 11 1 |
| 9 | Tu | 13 | 13 | 18 | 16 24 48 | 6 28 | 5 s 50 | 0 S 38 | 18 13 | 11 1 |
| 10 | W | 13 | 17 | 14 | 17 24 12 | 6 50 | 19 58 | 1 50 | 13 5 | 11 1 |
| 11 | Th | 13 | 21 | 11 | 18 23 38 | 7 13 | 4 s 31 | 2 57 | 7 6 | 11 1 |
| 12 | F | 13 | 25 | 7 | 19 23 6 | 7 36 | 19 26 | 3 54 | 0 36 | 11 1 |
| 13 | S | 13 | 29 | 4 | 20 22 36 | 7 58 | 4 s 35 | 4 35 | 6 S 2 | 11 1 |
| 14 | S | 13 | 33 | 0 | 21 22 9 | 8 20 | 19 49 | 4 57 | 12 20 | 11 1 |
| 15 | M | 13 | 36 | 57 | 22 21 43 | 8 43 | 4 m 57 | 4 58 | 17 51 | 11 1 |
| 16 | Tu | 13 | 40 | 53 | 23 21 20 | 9 5 | 19 49 | 4 39 | 22 10 | 11 1 |
| 17 | W | 13 | 44 | 50 | 24 20 58 | 9 27 | 4 f 16 | 4 22 | 24 58 | 11 1 |
| 18 | Th | 13 | 48 | 47 | 25 20 39 | 9 49 | 18 14 | 3 11 | 26 7 | 11 1 |
| 19 | F | 13 | 52 | 43 | 26 20 21 | 10 10 | 1 w 42 | 2 11 | 25 38 | 11 1 |
| 20 | S | 13 | 56 | 40 | 27 20 4 | 10 32 | 14 42 | 1 7 | 23 45 | 11 1 |
| 21 | S | 14 | 0 | 36 | 28 19 50 | 10 53 | 27 18 | 0 1 | 20 44 | 11 1 |
| 22 | M | 14 | 4 | 33 | 29 19 38 | 11 15 | 9 m 35 | 1 N 4 | 16 50 | 11 1 |
| 23 | Tu | 14 | 8 | 29 | 0 m 19 27 | 11 36 | 21 38 | 2 4 | 12 21 | 11 1 |
| 24 | W | 14 | 12 | 26 | 1 19 17 | 11 57 | 3 x 32 | 2 58 | 7 27 | 11 1 |
| 25 | Th | 14 | 16 | 22 | 2 19 10 | 12 17 | 15 22 | 3 44 | 2 18 | 11 1 |
| 26 | F | 14 | 20 | 19 | 3 19 4 | 12 38 | 27 12 | 4 21 | 2 N 52 | 11 1 |
| 27 | S | 14 | 24 | 16 | 4 18 59 | 12 58 | 9 r 5 | 4 46 | 7 59 | 11 1 |
| 28 | S | 14 | 28 | 12 | 5 18 57 | 13 18 | 21 3 | 4 59 | 12 50 | 11 1 |
| 29 | M | 14 | 32 | 9 | 6 18 56 | 13 38 | 3 s 8 | 4 58 | 17 14 | 11 1 |
| 30 | Tu | 14 | 36 | 5 | 7 18 58 | 13 58 | 15 21 | 4 43 | 20 58 | 11 1 |
| 31 | W | 14 | 40 | 2 | 8 19 1 | 14 17 | 27 43 | 4 16 | 23 49 | 11 1 |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 08 | 3 | 22 | N 6 | 1 N31 | 10 N11 |
| 4 | 16 | 9 | 0 | 3 | 22 | 5 | 1 32 | 10 6 |
| 7 | 16 | 10 | 0 | 3 | 22 | 4 | 1 33 | 10 2 |
| 10 | 16 | 11 | 0 | 3 | 22 | 3 | 1 34 | 9 57 |
| 13 | 16 | 12 | 0 | 3 | 22 | 2 | 1 34 | 9 54 |
| 16 | 16 | 12 | 0 | 3 | 22 | 1 | 1 35 | 9 50 |
| 19 | 16 | 13 | 0 | 3 | 22 | 0 | 1 35 | 9 47 |
| 22 | 16 | 13 | 0 | 3 | 21 | 59 | 1 36 | 9 44 |
| 25 | 16 | 14 | 0 | 3 | 21 | 58 | 1 37 | 9 42 |
| 28 | 16 | 14 | 0 | 3 | 21 | 57 | 1 37 | 9 39 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|------------|--------------|------------|-----------|--------------|------------|
| | | H. | M. | S. | ° | ' | " | ° | ' | " |
| 1 | Th | 14 | 43 | 58 | 9 | m | 19 | 6 | 14 | S 37 |
| 2 | F | 14 | 47 | 55 | 10 | 19 | 13 | 14 | 56 | 22 53 |
| 3 | S | 14 | 51 | 51 | 11 | 19 | 23 | 15 | 14 | 55 45 |
| 4 | S | 14 | 55 | 48 | 12 | 19 | 34 | 15 | 33 | 18 49 |
| 5 | M | 14 | 59 | 45 | 13 | 19 | 47 | 15 | 51 | 2 52 9 |
| 6 | Tu | 15 | 3 | 41 | 14 | 20 | 3 | 16 | 9 | 15 47 |
| 7 | W | 15 | 7 | 38 | 15 | 20 | 20 | 16 | 27 | 29 44 |
| 8 | Th | 15 | 11 | 34 | 16 | 20 | 40 | 16 | 44 | 14 m 0 |
| 9 | F | 15 | 15 | 31 | 17 | 21 | 1 | 17 | 2 | 28 35 |
| 10 | S | 15 | 19 | 27 | 18 | 21 | 24 | 17 | 18 | 13 28 |
| 11 | S | 15 | 23 | 24 | 19 | 21 | 50 | 17 | 35 | 28 17 |
| 12 | M | 15 | 27 | 20 | 20 | 22 | 16 | 17 | 51 | 13 m 10 |
| 13 | Tu | 15 | 31 | 17 | 21 | 22 | 45 | 18 | 7 | 27 51 |
| 14 | W | 15 | 35 | 14 | 22 | 23 | 15 | 18 | 23 | 12 f 13 |
| 15 | Th | 15 | 39 | 10 | 23 | 23 | 47 | 18 | 38 | 26 11 |
| 16 | F | 15 | 43 | 7 | 24 | 24 | 20 | 18 | 53 | 9 w 42 |
| 17 | S | 15 | 47 | 3 | 25 | 24 | 55 | 19 | 8 | 22 47 |
| 18 | S | 15 | 51 | 0 | 26 | 25 | 31 | 19 | 22 | 5 m 27 |
| 19 | M | 15 | 54 | 56 | 27 | 26 | 8 | 19 | 36 | 17 47 |
| 20 | Tu | 15 | 58 | 53 | 28 | 26 | 46 | 19 | 50 | 29 53 |
| 21 | W | 16 | 2 | 49 | 29 | 27 | 25 | 20 | 3 | 11 x 48 |
| 22 | Th | 16 | 6 | 46 | 0 | f | 28 | 6 | 20 | 16 23 39 |
| 23 | F | 16 | 10 | 43 | 1 | 28 | 47 | 20 | 28 | 5 r 30 |
| 24 | S | 16 | 14 | 39 | 2 | 29 | 30 | 20 | 41 | 17 26 |
| 25 | S | 16 | 18 | 36 | 3 | 30 | 14 | 20 | 52 | 29 29 |
| 26 | M | 16 | 22 | 32 | 4 | 30 | 59 | 21 | 4 | 11 s 42 |
| 27 | Tu | 16 | 26 | 29 | 5 | 31 | 45 | 21 | 15 | 24 7 |
| 28 | W | 16 | 30 | 25 | 6 | 32 | 32 | 21 | 25 | 6 n 44 |
| 29 | Th | 16 | 34 | 22 | 7 | 33 | 21 | 21 | 35 | 19 32 |
| 30 | F | 16 | 38 | 18 | 8 | 34 | 10 | 21 | 45 | 25 33 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 2 S 12 | 17 S 39 | 1 N 16 | 2 N 44 | 2 S 35 | 23 48 | 26 37 |
| 4 | 2 5 | 16 58 | 1 25 | 1 30 | 2 41 | 23 48 | 26 28 |
| 7 | 1 58 | 16 16 | 1 33 | 0 14 | 2 45 | 24 24 | 26 18 |
| 10 | 1 51 | 15 33 | 1 40 | 1 8 3 | 2 46 | 24 46 | 26 9 |
| 13 | 1 45 | 14 49 | 1 46 | 2 21 | 2 31 | 24 52 | 25 59 |
| 16 | 1 38 | 14 8 | 1 51 | 3 39 | 2 10 | 24 39 | 25 50 |
| 19 | 1 32 | 13 17 | 1 55 | 4 57 | 1 35 | 24 5 | 25 40 |
| 22 | 1 26 | 12 31 | 1 58 | 6 15 | 0 45 | 23 5 | 25 31 |
| 25 | 1 20 | 11 43 | 2 1 | 7 33 | 0 N 30 | 21 41 | 25 21 |
| 28 | 1 15 | 10 55 | 2 3 | 8 49 | 1 20 | 20 2 | 25 12 |

[illegible]

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 8 | 21 N 56 | 1 N 38 | 9 N 38 | 0 N 51 | 13 N 23 |
| 4 | 16 | 16 | 0 | 21 55 | 1 39 | 9 36 | 0 51 | 13 21 |
| 7 | 16 | 17 | 0 | 21 54 | 1 39 | 9 35 | 0 52 | 13 21 |
| 10 | 16 | 17 | 0 | 21 53 | 1 40 | 9 35 | 0 53 | 13 21 |
| 13 | 16 | 17 | 0 | 21 52 | 1 41 | 9 34 | 0 54 | 13 21 |
| 16 | 16 | 18 | 0 | 21 51 | 1 42 | 9 34 | 0 54 | 13 23 |
| 19 | 16 | 18 | 0 | 21 50 | 1 43 | 9 35 | 0 55 | 13 24 |
| 22 | 16 | 18 | 0 | 21 48 | 1 43 | 9 36 | 0 56 | 13 27 |
| 25 | 16 | 18 | 0 | 21 47 | 1 44 | 9 37 | 0 56 | 13 30 |
| 28 | 16 | 18 | 0 | 21 47 | 1 44 | 9 38 | 0 57 | 13 33 |
| 31 | 16 | 18 | 0 | 21 46 | 1 45 | 9 40 | 0 58 | 13 37 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ☾
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 16 42 15 | 9 7 35 | 1 21 8 | 54 15 54 | 0 N 41 | 23 N 13 | 10 11 5 |
| 2 | S | 16 46 12 | 10 35 53 | 22 3 29 | 8 0 S 31 | 19 51 | 10 12 2 | |
| 3 | M | 16 50 8 | 11 36 48 | 22 12 12 | 2 42 | 1 43 | 15 22 | 9 59 |
| 4 | Tu | 16 54 5 | 12 37 42 | 22 20 26 | 27 2 49 | 10 3 | 9 57 | |
| 5 | W | 16 58 1 | 13 38 38 | 22 27 10 | 23 3 47 | 4 10 | 9 54 | |
| 6 | Th | 17 1 58 | 14 39 35 | 22 35 24 | 30 4 32 | 1 8 59 | 9 52 | |
| 7 | F | 17 5 54 | 15 40 34 | 22 41 8 | 47 5 1 | 8 5 | 9 49 | |
| 8 | S | 17 9 51 | 16 41 34 | 22 48 23 | 11 5 11 | 13 49 | 9 47 | |
| 9 | S | 17 13 47 | 17 42 35 | 22 53 7 | 37 5 1 | 18 48 | 9 44 | |
| 10 | M | 17 17 44 | 18 43 37 | 22 59 22 | 1 4 32 | 22 40 | 9 42 | |
| 11 | Tu | 17 21 41 | 19 44 40 | 23 4 6 | 18 3 47 | 25 6 | 9 39 | |
| 12 | W | 17 25 37 | 20 45 43 | 23 8 20 | 20 2 49 | 25 55 | 9 37 | |
| 13 | Th | 17 29 34 | 21 46 48 | 23 12 4 | 5 1 41 | 25 5 | 9 34 | |
| 14 | F | 17 33 30 | 22 47 53 | 23 16 17 | .28 0 30 | 22 49 | 9 32 | |
| 15 | S | 17 37 27 | 23 48 59 | 23 19 0 | 30 0 N 41 | 19 23 | 9 29 | |
| 16 | S | 17 41 23 | 24 50 5 | 23 21 13 | 11 1 49 | 15 8 | 9 27 | |
| 17 | M | 17 45 20 | 25 51 12 | 23 24 25 | 34 2 49 | 10 21 | 9 24 | |
| 18 | Tu | 17 49 17 | 26 52 18 | 23 25 7 | 42 3 41 | 5 16 | 9 22 | |
| 19 | W | 17 53 13 | 27 53 26 | 23 26 19 | 40 4 23 | 0 4 | 9 19 | |
| 20 | Th | 17 57 10 | 28 54 33 | 23 27 1 | 33 4 53 | 5 N 5 | 9 17 | |
| 21 | F | 18 1 6 | 29 55 41 | 23 27 13 | 25 5 10 | 10 3 | 9 15 | |
| 22 | S | 18 5 3 | 0 56 48 | 23 27 25 | 21 5 14 | 14 41 | 9 13 | |
| 23 | S | 18 8 59 | 1 57 56 | 23 27 7 | 26 5 5 | 18 48 | 9 10 | |
| 24 | M | 18 12 56 | 2 59 3 | 23 25 19 | 44 4 41 | 22 11 | 9 8 | |
| 25 | Tu | 18 16 52 | 4 0 11 | 23 24 2 | 16 4 4 | 24 36 | 9 6 | |
| 26 | W | 18 20 49 | 5 1 19 | 23 22 15 | 6 3 13 | 25 49 | 9 4 | |
| 27 | Th | 18 24 46 | 6 2 27 | 23 19 28 | 12 2 12 | 25 38 | 9 1 | |
| 28 | F | 18 28 42 | 7 3 36 | 23 16 11 | 35 1 1 | 23 58 | 8 59 | |
| 29 | S | 18 32 39 | 8 4 44 | 23 13 25 | 18 0 S 14 | 20 53 | 8 57 | |
| 30 | S | 18 36 35 | 9 5 53 | 23 9 9 | 3 1 29 | 16 35 | 8 55 | |
| 31 | M | 18 40 32 | 10 7 2 | 23 4 23 | 8 2 40 | 11 20 | 8 52 | |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|------------|------------|------------|------------|------------|------------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | |
| 1 | 1 S 10 | 10 S 6 | 2 N 4 | 10 S 5 | 2 N 1 | 18 S 31 | 25 w 2 |
| 4 | 1 4 | 9 16 | 2 3 | 11 19 | 2 26 | 17 28 | 24 53 |
| 7 | 0 59 | 8 26 | 2 2 | 12 31 | 2 45 | 17 5 | 24 43 |
| 10 | 0 54 | 7 35 | 2 0 | 13 41 | 2 42 | 17 16 | 24 34 |
| 13 | 0 49 | 6 44 | 1 57 | 14 48 | 2 30 | 17 52 | 24 24 |
| 16 | 0 44 | 5 52 | 1 54 | 15 52 | 2 13 | 18 42 | 24 15 |
| 19 | 0 39 | 5 0 | 1 49 | 16 53 | 1 49 | 19 38 | 24 5 |
| 22 | 0 34 | 4 8 | 1 44 | 17 50 | 1 25 | 20 36 | 23 56 |
| 25 | 0 30 | 3 16 | 1 39 | 18 43 | 1 1 | 21 31 | 23 46 |
| 28 | 0 26 | 2 23 | 1 34 | 19 31 | 0 37 | 22 20 | 23 37 |
| 31 | 0 22 | 1 31 | 1 28 | 20 15 | 0 14 | 23 2 | 23 27 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|------------|------------|------------|------------|------------|------------------|----------------|------------|------------|------------|------------|------------|------------|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 | 9 m 13 | 26 Ω 49 | 6 x 45 | 1 m 31 | 1 ♀ 39 | ☉ ♀ ☿ | | | * | | | | |
| 2 | 9 15 | 26 51 | 7 26 | 2 44 | 0 R 37 | | | | | | | ☐ | Δ |
| 3 | 9 17 | 26 53 | 8 6 | 3 57 | 29 m 46 | | Δ | * | | | | | |
| 4 | 9 19 | 26 55 | 8 46 | 5 10 | 29 5 | | | | | ♄ | | | ☐ |
| 5 | 9 21 | 26 57 | 9 26 | 6 23 | 28 32 | ♄ ♄ ♄ | ☐ | ☐ | ♄ | ♄ | ♄ | * | |
| 6 | 9 23 | 26 58 | 10 6 | 7 36 | 28 18 | ♄ ☐ ☿ | | | | | | | * |
| 7 | 9 24 | 26 59 | 10 46 | 8 49 | 28 11 | | | Δ | | | | | |
| 8 | 9 25 | 27 0 | 11 26 | 10 2 | 28 D 16 | ♀ * ♄ | * | | * | | | | |
| 9 | 9 26 | 27 0 | 12 7 | 11 15 | 28 29 | | | | * | | Δ | ♄ | |
| 10 | 9 27 | 27 1 | 12 47 | 12 28 | 28 50 | | | | | ☐ | | | ♄ |
| 11 | 9 28 | 27 1 | 13 27 | 13 41 | 29 20 | ♀ Δ ♄ | | ♄ | ☐ | | | | |
| 12 | 9 29 | 27 1 | 14 7 | 14 55 | 29 57 | | ♄ | | | Δ | ☐ | | |
| 13 | 9 30 | 27 1 | 14 48 | 16 8 | 0 ♀ 41 | | | | Δ | | | | |
| 14 | 9 30 | 27 R | 15 28 | 17 21 | 1 30 | ♄ ☐ ☿ | | | | | * | * | |
| 15 | 9 31 | 27 1 | 16 9 | 18 35 | 2 24 | | | | | | | | * |
| 16 | 9 31 | 27 0 | 16 49 | 19 48 | 3 23 | | | Δ | | | | | |
| 17 | 9 31 | 26 59 | 17 30 | 21 2 | 4 25 | | * | | | ♄ | | ☐ | |
| 18 | 9 32 | 26 58 | 18 0 | 22 15 | 5 31 | ☉ Δ ♄ | | ☐ | ♄ | | | | ☐ |
| 19 | 9 32 | 26 57 | 18 52 | 23 29 | 6 40 | | | | | | ♄ | Δ | |
| 20 | 9 32 | 26 56 | 19 32 | 24 43 | 7 51 | | ☐ | | | | | | |
| 21 | 9 R 32 | 26 54 | 20 13 | 25 57 | 9 5 | ♀ ♄ ☿ | | * | | | | | Δ |
| 22 | 9 31 | 26 52 | 20 54 | 27 10 | 10 20 | | | | | Δ | | | |
| 23 | 9 31 | 26 50 | 21 35 | 28 24 | 11 38 | | Δ | | Δ | | | | |
| 24 | 9 30 | 26 48 | 22 15 | 29 38 | 12 56 | ♀ ☐ ♄ | | | | | * | | |
| 25 | 9 30 | 26 46 | 22 56 | 0 ♀ 52 | 14 17 | | | | | ☐ | | ♄ | |
| 26 | 9 29 | 26 43 | 23 37 | 2 6 | 15 38 | | | ♄ | ☐ | * | | | ♄ |
| 27 | 9 29 | 26 40 | 24 18 | 3 20 | 17 0 | | | | | * | ☐ | | |
| 28 | 9 28 | 26 37 | 24 59 | 4 34 | 18 24 | | ♄ | | * | | | | |
| 29 | 9 27 | 26 34 | 25 40 | 5 48 | 19 48 | | | | | | Δ | | |
| 30 | 9 26 | 26 31 | 26 21 | 7 2 | 21 13 | ☉ Δ ♄ | | * | | | | Δ | |
| 31 | 9 25 | 26 28 | 27 2 | 8 16 | 22 40 | | | | | ♄ | | | Δ |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | ' | ° | ° | H. M. S. | | | ° | ° | ° | ° | ' | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 24 | 23 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 11 | 19 | 17 | 23 | 5 | 23 |
| 0 | 3 | 40 | 1 | 11 | 25 | 23 | 45 | 14 | 4 | 1 | 55 | 27 | 1 | 12 | 20 | 18 | 11 | 6 | 20 |
| 0 | 7 | 20 | 2 | 12 | 26 | 20 | 25 | 15 | 5 | 1 | 59 | 17 | 2 | 13 | 21 | 18 | 51 | 7 | 1 |
| 0 | 11 | 0 | 3 | 13 | 27 | 0 | 14 | 16 | 6 | 2 | 3 | 8 | 3 | 14 | 21 | 19 | 30 | 8 | 1 |
| 0 | 14 | 41 | 4 | 14 | 28 | 0 | 40 | 17 | 6 | 2 | 8 | 59 | 4 | 15 | 22 | 20 | 9 | 8 | 1 |
| 0 | 18 | 21 | 5 | 15 | 29 | 1 | 25 | 17 | 7 | 2 | 10 | 51 | 5 | 15 | 23 | 20 | 46 | 9 | 2 |
| 0 | 22 | 3 | 6 | 16 | 29 | 2 | 7 | 18 | 8 | 2 | 14 | 44 | 6 | 16 | 24 | 21 | 37 | 10 | 3 |
| 0 | 25 | 42 | 7 | 17 | 30 | 2 | 42 | 19 | 9 | 2 | 18 | 37 | 7 | 17 | 24 | 22 | 8 | 11 | 4 |
| 0 | 29 | 23 | 8 | 18 | 1 | 3 | 26 | 19 | 10 | 2 | 22 | 31 | 8 | 18 | 25 | 22 | 47 | 11 | 5 |
| 0 | 33 | 4 | 9 | 19 | 2 | 4 | 4 | 20 | 10 | 2 | 26 | 25 | 9 | 19 | 26 | 23 | 29 | 12 | 6 |
| 0 | 36 | 45 | 10 | 20 | 3 | 4 | 41 | 21 | 11 | 2 | 30 | 20 | 10 | 20 | 27 | 24 | 8 | 13 | 7 |
| 0 | 40 | 26 | 11 | 21 | 4 | 5 | 19 | 22 | 12 | 2 | 34 | 16 | 11 | 21 | 27 | 24 | 49 | 13 | 8 |
| 0 | 44 | 8 | 12 | 22 | 4 | 5 | 58 | 23 | 13 | 2 | 38 | 13 | 12 | 22 | 28 | 25 | 28 | 14 | 9 |
| 0 | 47 | 50 | 13 | 23 | 5 | 6 | 36 | 23 | 14 | 2 | 42 | 10 | 13 | 23 | 29 | 26 | 8 | 15 | 10 |
| 0 | 51 | 32 | 14 | 24 | 5 | 6 | 7 | 24 | 15 | 2 | 46 | 8 | 14 | 24 | 30 | 26 | 42 | 15 | 11 |
| 0 | 55 | 14 | 15 | 25 | 6 | 7 | 53 | 24 | 15 | 2 | 50 | 7 | 15 | 25 | 0 | 27 | 29 | 16 | 11 |
| 0 | 58 | 5 | 16 | 27 | 7 | 8 | 32 | 25 | 16 | 2 | 54 | 7 | 16 | 26 | 1 | 28 | 10 | 17 | 12 |
| 1 | 2 | 40 | 17 | 28 | 8 | 9 | 10 | 25 | 17 | 2 | 58 | 7 | 17 | 27 | 2 | 28 | 51 | 18 | 13 |
| 1 | 6 | 23 | 18 | 29 | 9 | 9 | 47 | 26 | 18 | 2 | 3 | 8 | 18 | 28 | 3 | 29 | 32 | 19 | 14 |
| 1 | 10 | 7 | 19 | 10 | 10 | 10 | 25 | 27 | 19 | 2 | 6 | 9 | 19 | 29 | 4 | 0 | 13 | 20 | 15 |
| 1 | 13 | 51 | 20 | 1 | 11 | 11 | 5 | 28 | 20 | 2 | 10 | 12 | 20 | 30 | 5 | 0 | 54 | 20 | 16 |
| 1 | 17 | 35 | 21 | 2 | 12 | 11 | 43 | 29 | 20 | 2 | 14 | 15 | 21 | 31 | 6 | 1 | 36 | 21 | 17 |
| 1 | 21 | 20 | 22 | 3 | 12 | 12 | 22 | 30 | 21 | 2 | 18 | 19 | 22 | 1 | 7 | 2 | 17 | 22 | 18 |
| 1 | 25 | 6 | 23 | 4 | 13 | 13 | 0 | 31 | 22 | 2 | 22 | 23 | 23 | 2 | 8 | 3 | 30 | 23 | 19 |
| 1 | 28 | 52 | 24 | 5 | 14 | 13 | 30 | 1 | 23 | 2 | 26 | 26 | 24 | 3 | 8 | 4 | 41 | 24 | 20 |
| 1 | 32 | 38 | 25 | 6 | 15 | 14 | 18 | 2 | 24 | 2 | 30 | 35 | 25 | 4 | 9 | 5 | 22 | 25 | 21 |
| 1 | 36 | 25 | 26 | 7 | 16 | 14 | 56 | 3 | 25 | 2 | 34 | 41 | 26 | 5 | 9 | 6 | 5 | 26 | 22 |
| 1 | 40 | 13 | 27 | 8 | 16 | 15 | 35 | 3 | 26 | 2 | 38 | 49 | 27 | 6 | 10 | 6 | 47 | 27 | 23 |
| 1 | 44 | 0 | 28 | 9 | 17 | 16 | 14 | 4 | 26 | 2 | 42 | 57 | 28 | 7 | 11 | 7 | 30 | 27 | 24 |
| 1 | 47 | 48 | 29 | 10 | 18 | 16 | 53 | 4 | 27 | 2 | 47 | 6 | 29 | 8 | 12 | 7 | 12 | 28 | 25 |
| 1 | 51 | 37 | 30 | 11 | 19 | 17 | 32 | 5 | 28 | 2 | 51 | 15 | 30 | 9 | 12 | 7 | 54 | 29 | 26 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. M. S. | | | ° | ° | ° | ° | ' | ° | ° | H. M. S. | | | ° | ° | ° | ° | ' | ° | ° |
| 3 | 51 | 15 | 0 | 9 | 12 | 7 | 54 | 28 | 25 | 6 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 23 | 23 |
| 3 | 55 | 25 | 1 | 10 | 13 | 8 | 37 | 29 | 26 | 6 | 4 | 26 | 1 | 8 | 8 | 0 | 45 | 24 | 24 |
| 3 | 59 | 36 | 2 | 11 | 14 | 9 | 20 | 30 | 27 | 6 | 8 | 42 | 2 | 9 | 9 | 1 | 30 | 25 | 25 |
| 4 | 3 | 48 | 3 | 12 | 15 | 10 | 3 | 1 | 28 | 6 | 12 | 5 | 3 | 10 | 9 | 2 | 15 | 26 | 26 |
| 4 | 8 | 0 | 4 | 13 | 16 | 10 | 47 | 1 | 29 | 6 | 17 | 23 | 4 | 11 | 10 | 3 | 0 | 27 | 27 |
| 4 | 12 | 12 | 5 | 14 | 16 | 11 | 30 | 2 | 30 | 6 | 21 | 46 | 5 | 11 | 11 | 3 | 45 | 27 | 28 |
| 4 | 16 | 26 | 6 | 15 | 17 | 12 | 13 | 3 | 0 | 6 | 26 | 9 | 6 | 12 | 12 | 4 | 30 | 28 | 29 |
| 4 | 20 | 40 | 7 | 15 | 18 | 12 | 56 | 4 | 1 | 6 | 30 | 30 | 7 | 13 | 13 | 5 | 15 | 29 | 30 |
| 4 | 24 | 55 | 8 | 16 | 19 | 13 | 40 | 5 | 2 | 6 | 34 | 51 | 8 | 14 | 14 | 6 | 0 | 30 | 31 |
| 4 | 28 | 10 | 9 | 17 | 20 | 14 | 24 | 6 | 3 | 6 | 38 | 11 | 9 | 15 | 15 | 6 | 44 | 1 | 1 |
| 4 | 33 | 26 | 10 | 18 | 20 | 15 | 8 | 6 | 4 | 6 | 42 | 31 | 10 | 16 | 16 | 7 | 29 | 2 | 2 |
| 4 | 37 | 42 | 11 | 19 | 21 | 15 | 52 | 7 | 5 | 6 | 47 | 51 | 11 | 17 | 16 | 8 | 14 | 2 | 3 |
| 4 | 41 | 59 | 12 | 20 | 22 | 16 | 36 | 8 | 6 | 6 | 52 | 11 | 12 | 18 | 17 | 9 | 30 | 3 | 4 |
| 4 | 46 | 16 | 13 | 21 | 23 | 17 | 19 | 9 | 7 | 6 | 56 | 31 | 13 | 19 | 18 | 9 | 42 | 4 | 5 |
| 4 | 50 | 34 | 14 | 22 | 24 | 18 | 4 | 10 | 8 | 7 | 0 | 50 | 14 | 20 | 18 | 10 | 27 | 5 | 6 |
| 4 | 54 | 52 | 15 | 23 | 25 | 18 | 49 | 11 | 9 | 7 | 5 | 8 | 15 | 21 | 19 | 11 | 11 | 6 | 7 |
| 4 | 59 | 10 | 16 | 24 | 25 | 19 | 33 | 12 | 10 | 7 | 9 | 23 | 16 | 22 | 20 | 11 | 54 | 7 | 8 |
| 5 | 3 | 29 | 17 | 25 | 26 | 20 | 17 | 12 | 11 | 7 | 13 | 44 | 17 | 23 | 21 | 12 | 49 | 8 | 9 |
| 5 | 7 | 49 | 18 | 26 | 27 | 21 | 1 | 13 | 12 | 7 | 18 | 1 | 18 | 24 | 22 | 13 | 26 | 9 | 10 |
| 5 | 12 | 9 | 19 | 27 | 28 | 21 | 46 | 14 | 13 | 7 | 22 | 18 | 19 | 25 | 23 | 14 | 6 | 10 | 11 |
| 5 | 16 | 29 | 20 | 27 | 28 | 22 | 31 | 15 | 13 | 7 | 26 | 34 | 20 | 26 | 23 | 14 | 52 | 11 | 12 |
| 5 | 20 | 49 | 21 | 28 | 29 | 23 | 16 | 16 | 14 | 7 | 30 | 50 | 21 | 26 | 24 | 15 | 28 | 12 | 13 |
| 5 | 25 | 9 | 22 | 29 | 30 | 24 | 0 | 17 | 15 | 7 | 35 | 5 | 22 | 27 | 25 | 16 | 23 | 13 | 14 |
| 5 | 29 | 30 | 23 | 30 | 1 | 24 | 45 | 17 | 16 | 7 | 39 | 20 | 23 | 28 | 26 | 17 | 4 | 14 | 15 |
| 5 | 33 | 51 | 24 | 1 | 2 | 25 | 30 | 18 | 17 | 7 | 43 | 34 | 24 | 29 | 27 | 17 | 47 | 15 | 16 |
| 5 | 38 | 12 | 25 | 2 | 3 | 26 | 15 | 19 | 18 | 7 | 47 | 47 | 25 | 30 | 28 | 18 | 39 | 16 | 17 |
| 5 | 42 | 34 | 26 | 3 | 3 | 27 | 0 | 20 | 19 | 7 | 52 | 0 | 26 | 1 | 29 | 19 | 12 | 17 | 18 |
| 5 | 46 | 55 | 27 | 4 | 4 | 27 | 45 | 20 | 20 | 7 | 56 | 12 | 27 | 2 | 30 | 19 | 27 | 18 | 19 |
| 5 | 51 | 17 | 28 | 5 | 5 | 28 | 30 | 21 | 21 | 8 | 0 | 24 | 28 | 3 | 31 | 20 | 40 | 19 | 20 |
| 5 | 55 | 38 | 29 | 6 | 6 | 29 | 15 | 22 | 22 | 8 | 4 | 35 | 29 | 4 | 32 | 21 | 25 | 20 | 21 |
| 6 | 0 | 0 | 30 | 7 | 7 | 30 | 0 | 23 | 23 | 8 | 8 | 45 | 30 | 5 | 33 | 22 | 2 | 21 | 22 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | | |
|----------------------------|----|----|----|----|----|-------|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° | | |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 8 | 18 | 10 | 8 | 28 | 0 | 2 | 25 | 13 | 28 | 11 | 20 | |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 | |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 | |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 | |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 | |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 | |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 | |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 | |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 | |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 | |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | 10 | 46 | 9 | 10 | 10 | 2 | 18 | 55 | 19 | 29 | |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | m | |
| 8 | 57 | 52 | 12 | 16 | 11 | 0m | 28 | 27 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 | |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 10 | 57 | 30 | 13 | 13 | 4 | 20 | 51 | 22 | 2 | |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 | |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 | |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | f | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 48 | 24 | 6 | |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 53 | 1 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 | |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 | |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 | |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 53 | 3 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 | |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 | |
| 9 | 37 | 30 | 22 | 25 | 19 | 7 | 13 | 5 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 38 | 29 | 12 | |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 53 | 6 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | m | 13 | |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 53 | 0 | 14 | |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 11 | 41 | 30 | 25 | 23 | 13 | 28 | 32 | 1 | 15 | |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 | |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 30 | 9 | 11 | 49 | 0 | 27 | 26 | 14 | 29 | 53 | 3 | 17 | |
| 10 | 0 | 48 | 28 | 29 | 24 | 11 | 9 | 10 | 11 | 53 | 49 | 28 | 26 | 15 | 0 | f | 35 | 4 | 18 |
| 10 | 4 | 38 | 29 | 1 | 24 | 11 | 48 | 10 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 20 | |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 29 | 11 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 21 | |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | 2 | 3 | |
|----------------------------|----|----|----|----|----|-------|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ° | ° | H. | M. | S. | ° | ° | ° | ° | ° | ° | |
| 12 | 6 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 12 | 51 | 57 | 0 | 21 | 8 | 23 | 4 | 7 | 27 |
| 12 | 3 | 49 | 1 | 28 | 17 | 2 | 38 | 7 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 53 | 9 | 28 |
| 12 | 7 | 20 | 2 | 29 | 18 | 3 | 11 | 8 | 12 | 59 | 17 | 2 | 22 | 9 | 24 | 42 | 10 | T |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 49 | 9 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 23 | 10 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 13 | 3 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 13 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 25 | 42 | 7 | 3 | 21 | 6 | 27 | 12 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 7 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 22 | 7 | 46 | 14 | 14 | 26 | 25 | 9 | 29 | 15 | 0v | 45 | 20 | 9 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 14 | 30 | 20 | 10 | f | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 14 | 38 | 13 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 26 | 10 | 29 | 18 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 32 | 14 | 8 | 26 | 11 | 11 | 19 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 53 | 20 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 18 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 36 | 21 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | 30 | 19 |
| 12 | 3 | 40 | 17 | 11 | 28 | 13 | 17 | 25 | 14 | 58 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 20 |
| 12 | 6 | 23 | 18 | 11 | 29 | 14 | 0 | 23 | 15 | 3 | 8 | 18 | 7 | 23 | 9 | 33 | 4 | 21 |
| 12 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 15 | 6 | 9 | 19 | 7 | 23 | 10 | 36 | 6 | 22 |
| 12 | 13 | 51 | 20 | 13 | f | 15 | 27 | 25 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 12 | 17 | 35 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 12 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 12 | 25 | 6 | 23 | 15 | 3 | 17 | 36 | 29 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 13 | 28 |
| 12 | 28 | 53 | 24 | 16 | 3 | 18 | 25 | m | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 29 |
| 12 | 32 | 39 | 25 | 17 | 4 | 19 | 10 | 1 | 15 | 30 | 35 | 25 | 13 | 29 | 17 | 37 | 17 | 30 |
| 12 | 36 | 25 | 26 | 18 | 5 | 18 | 57 | 2 | 15 | 34 | 41 | 26 | 14 | v | 18 | 53 | 19 | 31 |
| 12 | 40 | 12 | 27 | 19 | 6 | 20 | 42 | 3 | 15 | 38 | 42 | 27 | 15 | 1 | 20 | 10 | 20 | 32 |
| 12 | 44 | 0 | 28 | 20 | 7 | 21 | 22 | 4 | 15 | 42 | 57 | 28 | 16 | 2 | 21 | 23 | 22 | 33 |
| 12 | 47 | 49 | 29 | 21 | 8 | 22 | 16 | 5 | 15 | 46 | 6 | 29 | 17 | 3 | 22 | 30 | 24 | 34 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|-------------------------|----|----|----|----|----|-------|----|----|----|-------------------------|----|----|----|----|----|-------|----|----|----|
| | | | ° | ° | ° | ° | ' | ° | ° | | | | ° | ° | ° | ° | ' | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 15 | 51 | 15 | 0 | 17 | 4 | 24 | 13 | 26 | 7 | 18 | 0 | 0 | 0 | 17 | 10 | 0 | 0 | 20 | 11 |
| 15 | 55 | 25 | 1 | 18 | 5 | 25 | 39 | 28 | 8 | 18 | 4 | 33 | 1 | 18 | 11 | 2 | 53 | 21 | 16 |
| 15 | 59 | 36 | 2 | 19 | 6 | 27 | 9 | 29 | 10 | 18 | 8 | 43 | 2 | 19 | 13 | 5 | 46 | 23 | 17 |
| 16 | 3 | 48 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 20 | 15 | 8 | 36 | 25 | 12 |
| 16 | 8 | 0 | 4 | 21 | 8 | Om | 11 | 2 | 12 | 18 | 17 | 26 | 4 | 21 | 16 | 11 | 23 | 26 | 17 |
| 16 | 12 | 13 | 5 | 22 | 9 | 1 | 49 | 4 | 13 | 18 | 21 | 48 | 5 | 23 | 18 | 14 | 9 | 27 | 12 |
| 16 | 16 | 26 | 6 | 23 | 10 | 3 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 24 | 20 | 16 | 56 | 29 | 13 |
| 16 | 20 | 40 | 7 | 24 | 11 | 5 | 9 | 9 | 16 | 18 | 30 | 30 | 7 | 25 | 21 | 19 | 38 | 31 | 13 |
| 16 | 24 | 55 | 8 | 25 | 12 | 6 | 55 | 11 | 17 | 18 | 34 | 51 | 8 | 26 | 23 | 23 | 16 | 1 | 12 |
| 16 | 29 | 10 | 9 | 26 | 13 | 8 | 44 | 13 | 18 | 18 | 39 | 11 | 9 | 27 | 24 | 24 | 51 | 2 | 12 |
| 16 | 33 | 26 | 10 | 27 | 14 | 10 | 36 | 15 | 20 | 18 | 43 | 31 | 10 | 28 | 26 | 27 | 24 | 4 | 12 |
| 16 | 37 | 42 | 11 | 28 | 15 | 12 | 31 | 17 | 21 | 18 | 47 | 51 | 11 | 29 | 28 | 29 | 53 | 5 | 12 |
| 16 | 41 | 59 | 12 | 29 | 16 | 14 | 30 | 19 | 22 | 18 | 52 | 11 | 12 | 1 | 29 | 20 | 19 | 7 | 12 |
| 16 | 46 | 16 | 13 | 30 | 17 | 16 | 31 | 21 | 24 | 18 | 56 | 31 | 13 | 2 | 30 | 4 | 40 | 8 | 12 |
| 16 | 50 | 34 | 14 | 1 | 19 | 18 | 39 | 23 | 25 | 19 | 0 | 50 | 14 | 3 | 2 | 6 | 58 | 9 | 12 |
| 16 | 54 | 53 | 15 | 2 | 20 | 20 | 49 | 25 | 26 | 19 | 5 | 8 | 15 | 4 | 4 | 9 | 11 | 10 | 12 |
| 16 | 59 | 10 | 16 | 3 | 21 | 23 | 2 | 27 | 27 | 19 | 9 | 20 | 16 | 5 | 6 | 11 | 21 | 11 | 12 |
| 17 | 3 | 29 | 17 | 4 | 22 | 25 | 20 | 28 | 28 | 19 | 13 | 44 | 17 | 7 | 8 | 13 | 29 | 12 | 12 |
| 17 | 7 | 49 | 18 | 5 | 23 | 27 | 41 | 8 | 29 | 19 | 18 | 1 | 18 | 8 | 10 | 15 | 30 | 14 | 12 |
| 17 | 12 | 9 | 19 | 6 | 25 | Om | 7 | 2 | 31 | 19 | 23 | 18 | 19 | 9 | 12 | 17 | 29 | 15 | 12 |
| 17 | 16 | 29 | 20 | 7 | 26 | 2 | 36 | 3 | 2 | 19 | 28 | 34 | 20 | 10 | 14 | 19 | 34 | 16 | 12 |
| 17 | 20 | 49 | 21 | 8 | 27 | 5 | 9 | 5 | 3 | 19 | 30 | 50 | 21 | 12 | 16 | 21 | 16 | 18 | 12 |
| 17 | 25 | 9 | 22 | 9 | 29 | 7 | 44 | 7 | 4 | 19 | 35 | 5 | 22 | 13 | 18 | 23 | 6 | 19 | 12 |
| 17 | 29 | 30 | 23 | 10 | 30 | 10 | 22 | 8 | 5 | 19 | 39 | 20 | 23 | 14 | 20 | 24 | 51 | 19 | 12 |
| 17 | 33 | 51 | 24 | 11 | 1 | 13 | 4 | 10 | 6 | 19 | 43 | 34 | 24 | 15 | 22 | 26 | 32 | 20 | 12 |
| 17 | 38 | 12 | 25 | 12 | 3 | 15 | 51 | 12 | 7 | 19 | 47 | 47 | 25 | 17 | 24 | 28 | 12 | 21 | 12 |
| 17 | 42 | 34 | 26 | 13 | 4 | 18 | 37 | 14 | 8 | 19 | 52 | 0 | 26 | 18 | 26 | 29 | 40 | 22 | 12 |
| 17 | 46 | 55 | 27 | 14 | 5 | 21 | 25 | 15 | 9 | 19 | 56 | 12 | 27 | 19 | 28 | 1H | 30 | 23 | 12 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 10 | 20 | 0 | 34 | 28 | 20 | 7 | 2 | 51 | 25 | 12 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 11 | 20 | 4 | 36 | 29 | 21 | 1 | 4 | 21 | 26 | 12 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 13 | 20 | 8 | 45 | 30 | 23 | 3 | 5 | 47 | 27 | 12 |
| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
| | | | ° | ° | ° | ° | ' | ° | ° | | | | ° | ° | ° | ° | ' | ° | ° |
| H. | M. | S. | | | | | | | | H. | M. | S. | | | | | | | |
| 20 | 8 | 45 | 0 | 23 | 3 | 5 | 47 | 26 | 13 | 23 | 8 | 23 | 0 | 3 | 23 | 6 | 58 | 28 | 13 |
| 20 | 12 | 54 | 1 | 24 | 5 | 7 | 10 | 28 | 14 | 23 | 12 | 12 | 1 | 4 | 24 | 7 | 44 | 29 | 13 |
| 20 | 17 | 3 | 2 | 25 | 7 | 8 | 32 | 28 | 14 | 23 | 16 | 0 | 2 | 5 | 25 | 8 | 31 | 30 | 13 |
| 20 | 21 | 11 | 3 | 27 | 9 | 9 | 50 | 29 | 15 | 23 | 19 | 48 | 3 | 7 | 26 | 9 | 17 | 31 | 13 |
| 20 | 25 | 19 | 4 | 28 | 11 | 11 | 7 | 35 | 16 | 23 | 23 | 35 | 4 | 8 | 27 | 10 | 3 | 32 | 13 |
| 20 | 29 | 26 | 5 | 29 | 13 | 12 | 23 | 1 | 17 | 23 | 27 | 23 | 5 | 9 | 29 | 10 | 50 | 33 | 13 |
| 20 | 33 | 31 | 6 | 30 | 15 | 13 | 30 | 2 | 18 | 23 | 31 | 8 | 6 | 10 | 31 | 11 | 35 | 34 | 13 |
| 20 | 37 | 37 | 7 | 3 | 17 | 14 | 50 | 3 | 19 | 23 | 34 | 54 | 7 | 12 | 1 | 12 | 23 | 35 | 13 |
| 20 | 41 | 41 | 8 | 3 | 18 | 16 | 0 | 4 | 20 | 23 | 38 | 40 | 8 | 13 | 2 | 13 | 6 | 36 | 13 |
| 20 | 45 | 45 | 9 | 4 | 20 | 17 | 8 | 5 | 21 | 23 | 42 | 25 | 9 | 14 | 3 | 13 | 49 | 37 | 13 |
| 20 | 49 | 48 | 10 | 6 | 22 | 18 | 16 | 6 | 22 | 23 | 46 | 9 | 10 | 16 | 4 | 14 | 33 | 38 | 13 |
| 20 | 53 | 51 | 11 | 7 | 24 | 19 | 22 | 7 | 23 | 23 | 49 | 53 | 11 | 17 | 5 | 15 | 17 | 39 | 13 |
| 20 | 57 | 52 | 12 | 9 | 26 | 20 | 27 | 7 | 23 | 23 | 53 | 37 | 12 | 18 | 7 | 16 | 6 | 40 | 13 |
| 21 | 1 | 53 | 13 | 10 | 27 | 21 | 30 | 8 | 24 | 23 | 57 | 20 | 13 | 20 | 8 | 16 | 43 | 41 | 13 |
| 21 | 5 | 53 | 14 | 11 | 29 | 22 | 32 | 9 | 25 | 23 | 1 | 3 | 14 | 21 | 9 | 17 | 25 | 42 | 13 |
| 21 | 9 | 53 | 15 | 12 | 31 | 23 | 32 | 10 | 26 | 23 | 4 | 46 | 15 | 22 | 10 | 18 | 7 | 43 | 13 |
| 21 | 13 | 53 | 16 | 14 | 2 | 24 | 32 | 11 | 27 | 23 | 8 | 28 | 16 | 23 | 11 | 18 | 49 | 44 | 13 |
| 21 | 17 | 50 | 17 | 15 | 4 | 25 | 30 | 12 | 27 | 23 | 12 | 10 | 17 | 24 | 12 | 19 | 31 | 45 | 13 |
| 21 | 21 | 47 | 18 | 17 | 6 | 26 | 28 | 12 | 28 | 23 | 15 | 52 | 18 | 26 | 13 | 20 | 12 | 46 | 13 |
| 21 | 25 | 44 | 19 | 18 | 7 | 27 | 24 | 13 | 29 | 23 | 19 | 34 | 19 | 27 | 14 | 20 | 53 | 47 | 13 |
| 21 | 29 | 40 | 20 | 19 | 9 | 28 | 20 | 14 | 30 | 23 | 23 | 15 | 20 | 29 | 15 | 21 | 34 | 48 | 13 |
| 21 | 33 | 36 | 21 | 21 | 10 | 29 | 15 | 15 | 1 | 23 | 26 | 56 | 21 | 23 | 16 | 22 | 14 | 49 | 13 |
| 21 | 37 | 30 | 22 | 22 | 11 | Om | 9 | 16 | 2 | 23 | 30 | 37 | 22 | 25 | 17 | 23 | 52 | 50 | 13 |
| 21 | 41 | 23 | 23 | 23 | 13 | 1 | 2 | 16 | 3 | 23 | 34 | 18 | 23 | 1 | 18 | 24 | 33 | 51 | 13 |
| 21 | 45 | 16 | 24 | 25 | 15 | 1 | 55 | 17 | 4 | 23 | 37 | 58 | 24 | 2 | 19 | 24 | 13 | 52 | 13 |
| 21 | 49 | 9 | 25 | 26 | 16 | 2 | 47 | 18 | 4 | 23 | 41 | 39 | 25 | 4 | 20 | 24 | 53 | 53 | 13 |
| 21 | 53 | 1 | 26 | 28 | 17 | 3 | 39 | 19 | 5 | 23 | 45 | 19 | 26 | 6 | 22 | 25 | 54 | 54 | 13 |
| 21 | 56 | 52 | 27 | 29 | 19 | 4 | 30 | 20 | 6 | 23 | 49 | 0 | 27 | 6 | 23 | 26 | 55 | 55 | 13 |
| 22 | 0 | 43 | 28 | 31 | 21 | 5 | 18 | 21 | 7 | 23 | 53 | 40 | 28 | 7 | 24 | 27 | 56 | 56 | 13 |
| 22 | 4 | 33 | 29 | 32 | 23 | 6 | 7 | 22 | 8 | 23 | 56 | 20 | 29 | 8 | 25 | 28 | 57 | 57 | 13 |
| 22 | 8 | 23 | 30 | 33 | 25 | 7 | 56 | 23 | 9 | 23 | 0 | 0 | 30 | 9 | 26 | 29 | 58 | 58 | 13 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING** and **RESTORATIVE** Properties. Hence their invariable success in the **RELIEF** and **CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insalubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, OR HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

ANY Invalids should read Crosby's Prize Treatise on "**DISEASES OF THE LUNGS AND AIR VESSELS**," a copy of which can be had **Gratis** of all Chemists.

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such fallacious remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which lies at the root of the malady, modern science points to CROSBY'S BALSAMIC COUGH ELIXIR as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says:—"I have repeatedly observed how very rapidly and invariably it subdues Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as a most valuable adjunct to an otherwise strengthening treatment for this disease."

CROSBY'S BALSAMIC COUGH ELIXIR.

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR.

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only allays the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,

CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by JAS. M. CROSBY, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR.

Ask your Chemist for the New Edition (GRAYS) of Crosby's Price Treatise on "*DISEASES OF THE LUNGS AND AIR-VESSELS*," containing full and plain instructions for the relief and cure of these diseases, or Post Free from JAS. M. CROSBY, Chemist, Scarborough.

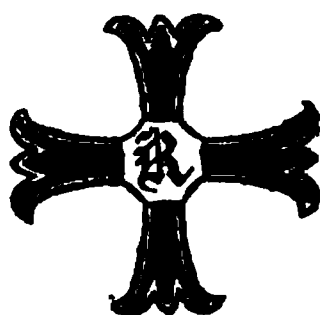
CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1861.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

4 (m.) 934 160

DR. ROOKE'S ANTI-LANCET.

WHAT IS IT?

A HANDY GUIDE TO DOMESTIC MEDICINE

Every Household should Possess a Copy.

DR. ROOKE'S ANTI-LANCET.

All Invalids should read the Chapter on the Functions of Digestion, showing by what process Food is converted into Blood—How Blood sustains the whole System—How Nervous Power influences all the Bodily Organs to perform their allotted Functions—Principles of Life and Death unfolded—Dying seldom accompanied with Pain—Mental Vision amplified prior to the Death of the Body—Immortality of the Intelligent Principle.

DR. ROOKE'S ANTI-LANCET.

The Nervous, the Dyspeptic, or the Hypochondriac, should read the Chapter on the Origin of all Diseases from Depression of Nervous or Vital Power—How explained—Producing or exciting causes of Nervous Depression—Effects of the Mind on the Body—Effects of Excessive Joy—Anger—Grief and Suspense—Sudden Surprise and Fright—Hard Study—Hot Relaxing Fluids—Intemperance in Eating and Drinking—Spiritous Liquors—Loss of Blood—Impure Air.

DR. ROOKE'S ANTI-LANCET.

Read the Chapter on the Destructive Practice of Bleeding, illustrated by the cases of Lord Byron, Sir Walter Scott, Madame Malibran, Count Cavour, Gen. "Stonewall" Jackson, and other public characters.

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health, and thus prolong life, should read Dr. ROOKE'S ANTI-LANCET; or, HANDY GUIDE TO DOMESTIC MEDICINE, which can be had gratis from any Chemist, or sent free from Dr. ROOKE, Scarborough. Concerning this book, the late eminent author, Sheridan Knowles, observed:—"It will be an incalculable boon to every person who can read and think."

DR. ROOKE'S ANTI-LANCET.

A clergyman, writing to Dr. Roke under date July 15th, 1874, speaking of the ANTI-LANCET, says:—"Of its style and matter I can judge, for I have been an author on other themes for thirty years. None but a master-mind among men could have conceived or written your introduction. It is the most perfect delineation I ever read of the human frame, and the links between the material fabric and the spiritual union of body and soul."

DR. ROOKE'S ANTI-LANCET.

Or, HANDY GUIDE TO DOMESTIC MEDICINE, can be had gratis of all Chemists, or sent free from Dr. ROOKE, Scarborough, England.

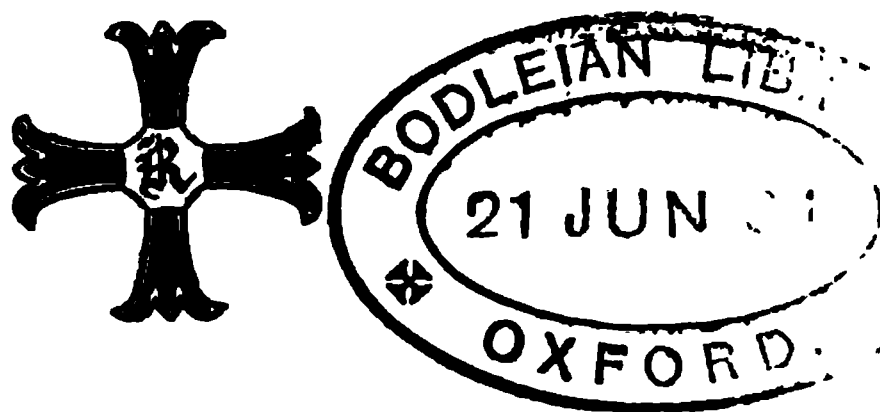
DR. ROOKE'S ANTI-LANCET.

Ask your Chemist for a copy (gratis) of the last edition, containing 111 pages.

RAPHAEL'S
ASTRONOMICAL EPHEMERIS
OF THE
PLANETS' PLACES

For 1861.

(REVISED AND CORRECTED.)



LONDON:
PRINTED AND PUBLISHED BY THE AUTHOR.
1883.

Price One Shilling.

JANUARY XXXI DAYS.

| D
M | Sun's | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|----------|----|-----------|--------|---------|---------|----------|---------|--------|
| | Semidia. | | Lat. | Decln. | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | |
| 1 | 16 | 18 | 08 | 3 | 21 N45 | 1 N45 | 9 N41 | 0 N58 | 13 N39 |
| 4 | 16 | 18 | 0 | 2 | 21 44 | 1 45 | 9 44 | 0 59 | 13 44 |
| 7 | 16 | 18 | 0 | 2 | 21 43 | 1 46 | 9 46 | 1 0 | 13 49 |
| 10 | 16 | 18 | 0 | 2 | 21 43 | 1 47 | 9 49 | 1 1 | 13 55 |
| 13 | 16 | 18 | 0 | 2 | 21 42 | 1 48 | 9 53 | 1 2 | 14 1 |
| 16 | 16 | 18 | 0 | 2 | 21 41 | 1 49 | 9 57 | 1 2 | 14 8 |
| 19 | 16 | 17 | 0 | 2 | 21 40 | 1 50 | 10 1 | 1 3 | 14 15 |
| 22 | 16 | 17 | 0 | 2 | 21 40 | 1 50 | 10 5 | 1 3 | 14 22 |
| 25 | 16 | 17 | 0 | 2 | 21 40 | 1 51 | 10 9 | 1 4 | 14 29 |
| 28 | 16 | 17 | 0 | 2 | 21 39 | 1 52 | 10 14 | 1 4 | 14 37 |
| 31 | 16 | 16 | 0 | 2 | 21 39 | 1 52 | 10 19 | 1 6 | 14 45 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Tu | 18 44 28 | 11 w 8 11 | 22 S 59 | 7 w 10 | 3 S 42 | 5 N 27 | 8 N 51 |
| 2 | W | 18 48 25 | 12 9 20 | 22 54 | 21 21 | 4 30 | 0 S 42 | 8 R 49 |
| 3 | Th | 18 52 21 | 13 10 30 | 22 54 | 5 S 33 | 5 8 | 6 50 | 8 47 |
| 4 | F | 18 56 18 | 14 11 40 | 22 54 | 19 44 | 6 16 | 12 36 | 8 45 |
| 5 | S | 19 0 15 | 15 12 50 | 22 35 | 3 m 52 | 6 11 | 17 41 | 8 43 |
| 6 | S | 19 4 11 | 16 14 0 | 22 28 | 17 55 | 4 47 | 21 46 | 8 41 |
| 7 | M | 19 8 8 | 17 15 10 | 22 21 | 1 f 50 | 4 6 | 24 34 | 8 39 |
| 8 | Tu | 19 12 4 | 18 16 20 | 22 13 | 15 36 | 3 12 | 25 51 | 8 37 |
| 9 | W | 19 16 1 | 19 17 29 | 22 4 | 29 10 | 2 7 | 25 34 | 8 35 |
| 10 | Th | 19 19 57 | 20 18 39 | 21 55 | 12 w 51 | 0 57 | 28 48 | 8 33 |
| 11 | F | 19 23 54 | 21 19 49 | 21 46 | 25 36 | 0 N 16 | 20 47 | 8 31 |
| 12 | S | 19 27 50 | 22 20 58 | 21 50 | 8 x 26 | 1 26 | 16 47 | 8 29 |
| 13 | S | 19 31 47 | 23 22 6 | 21 26 | 21 0 | 2 30 | 12 8 | 8 28 |
| 14 | M | 19 35 44 | 24 23 14 | 21 15 | 3 x 20 | 3 27 | 7 5 | 8 26 |
| 15 | Tu | 19 39 40 | 25 24 21 | 21 4 | 15 28 | 4 12 | 1 51 | 8 25 |
| 16 | W | 19 43 37 | 26 25 28 | 20 53 | 27 27 | 4 47 | 3 N 22 | 8 23 |
| 17 | Th | 19 47 33 | 27 26 33 | 20 41 | 9 r 20 | 6 8 | 8 25 | 8 21 |
| 18 | F | 19 51 30 | 28 27 38 | 20 29 | 21 12 | 6 17 | 13 10 | 8 20 |
| 19 | S | 19 55 26 | 29 28 42 | 20 17 | 3 s 7 | 6 12 | 17 26 | 8 19 |
| 20 | S | 19 59 23 | 0 m 29 45 | 20 4 | 15 11 | 4 53 | 21 4 | 8 18 |
| 21 | M | 20 3 19 | 1 30 46 | 19 50 | 27 27 | 4 21 | 23 50 | 8 17 |
| 22 | Tu | 20 7 16 | 2 31 47 | 19 37 | 10 N 0 | 3 35 | 25 31 | 8 16 |
| 23 | W | 20 11 13 | 3 32 47 | 19 23 | 22 54 | 2 38 | 25 54 | 8 15 |
| 24 | Th | 20 15 9 | 4 33 45 | 19 8 | 6 s 9 | 1 31 | 24 50 | 8 14 |
| 25 | F | 20 19 6 | 5 34 43 | 18 53 | 19 48 | 0 17 | 22 16 | 8 13 |

JANUARY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. | | | | |
|--------|--------|---------|---------|---------|----------|------------------|-----------------|---|---|------|-----|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | |
| 1 | 0 8 19 | 1 8 13 | 1 N 26 | 20 S 29 | 0 N 5 | 29 S 14 | 23 w 24 | | | | |
| 4 | 0 15 | 0 21 | 1 19 | 21 6 | 0 S 17 | 23 43 | 23 14 | | | | |
| 7 | 0 12 | 0 N 32 | 1 11 | 21 36 | 0 38 | 24 2 | 23 5 | | | | |
| 10 | 0 9 | 1 24 | 1 4 | 22 4 | 0 56 | 24 11 | 22 55 | | | | |
| 13 | 0 6 | 2 16 | 0 56 | 22 24 | 1 13 | 24 7 | 22 46 | | | | |
| 16 | 0 3 | 3 8 | 0 48 | 22 39 | 1 29 | 23 52 | 22 36 | | | | |
| 19 | 0 0 | 4 0 | 0 39 | 22 47 | 1 42 | 23 23 | 22 26 | | | | |
| 22 | 0 N 3 | 4 51 | 0 31 | 22 49 | 1 52 | 22 42 | 22 17 | | | | |
| 25 | 0 7 | 5 42 | 0 23 | 22 45 | 1 59 | 21 47 | 22 7 | | | | |
| 28 | 0 10 | 6 33 | 0 14 | 22 35 | 2 8 | 20 39 | 21 58 | | | | |
| 31 | 0 13 | 7 22 | 0 6 | 22 18 | 2 6 | 19 17 | 21 48 | | | | |
| D
M | h | ♂ | ♂ | ♀ | ♀ | Mutual
Aspts. | Luna | | | etc. | |
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♀ | ♂ | ♀ |
| | ° | ' | ° | ' | ° | ' | | | | | |
| 1 | 9 m 24 | 26 Ω 24 | 27 x 43 | 9 f 30 | 24 f 7 | ♀ ♂ ♀ | Δ | □ | ♂ | □ | |
| 2 | 9 R 23 | 26 R 20 | 28 24 | 10 44 | 25 34 | ♀ Δ ♀ | | | | | □ |
| 3 | 9 21 | 26 16 | 29 5 | 11 59 | 27 2 | | | Δ | | * | |
| 4 | 9 20 | 26 11 | 29 46 | 13 13 | 28 31 | | □ | | | | |
| 5 | 9 18 | 26 7 | 0 r 27 | 14 27 | 0 w 0 | | | | * | | * |
| 6 | 9 17 | 26 3 | 1 8 | 15 41 | 1 29 | ♀ □ ♂ | * | | | | |
| 7 | 9 15 | 25 58 | 1 49 | 16 55 | 2 59 | | | ♂ | □ | Δ | |
| 8 | 9 13 | 25 54 | 2 30 | 18 10 | 4 30 | | | □ | | | ♂ |
| 9 | 9 11 | 25 49 | 3 11 | 19 24 | 6 1 | ☉ P ♀ | | | Δ | □ | |
| 10 | 9 9 | 25 44 | 3 53 | 20 39 | 7 33 | | | Δ | | | ♂ |
| 11 | 9 6 | 25 39 | 4 34 | 21 53 | 9 5 | ♀ Δ h | ♂ | | | | |
| 12 | 9 3 | 25 33 | 5 15 | 23 7 | 10 37 | | | Δ | | * | |
| 13 | 9 0 | 25 27 | 5 56 | 24 22 | 12 10 | ☉ □ ♀ | | | ♂ | | * |
| 14 | 8 57 | 25 21 | 6 37 | 25 36 | 13 44 | ☉ □ h | | □ | ♂ | | |
| 15 | 8 54 | 25 15 | 7 18 | 26 51 | 15 18 | ♀ □ ♀ | | | | | * |
| 16 | 8 51 | 25 8 | 7 59 | 28 5 | 16 53 | | * | | | | □ |
| 17 | 8 48 | 25 2 | 8 40 | 29 20 | 18 28 | ♂ * ♀ | | * | | ♂ | |
| 18 | 8 45 | 24 56 | 9 22 | 0 w 34 | 20 3 | | | | | Δ | □ |
| 19 | 8 42 | 24 49 | 10 1 | 1 49 | 21 39 | ♂ □ ♀ | □ | | Δ | | Δ |
| 20 | 8 39 | 24 42 | 10 44 | 3 8 | 23 16 | ♀ □ h | | | | | |
| 21 | 8 36 | 24 36 | 11 25 | 4 18 | 24 54 | | Δ | | □ | * | Δ |
| 22 | 8 33 | 24 29 | 12 6 | 5 32 | 26 32 | | | ♂ | □ | * | |
| 23 | 8 29 | 24 22 | 12 47 | 6 47 | 28 10 | | | | * | | |
| 24 | 8 26 | 24 15 | 13 8 | 7 1 | 29 49 | ♀ Δ h | | * | | | ♂ |
| 25 | 8 22 | 24 8 | 14 10 | 9 16 | 1 m 29 | ♀ □ ♀ | | | | □ | |
| 26 | 8 19 | 24 1 | 15 10 | 10 30 | 3 10 | | | ♂ | * | | ♂ |
| 27 | 8 15 | 23 51 | 15 32 | 11 45 | 4 51 | | | | | ♂ | Δ |
| 28 | 8 11 | 23 46 | 16 13 | 12 59 | 6 33 | ☉ Δ ♀ | | □ | ♂ | | |
| 29 | 8 8 | 23 39 | 16 54 | 14 14 | 8 15 | ♀ Δ ♀ | | | | | Δ |
| 30 | 8 4 | 23 31 | 17 38 | 15 28 | 9 59 | | | Δ | | | |
| 31 | 7 59 | 23 24 | 18 16 | 16 43 | 11 43 | ☉ ♂ ♀ | Δ | | * | ♂ | □ Δ |

FEBRUARY XXVIII DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 S 2 | 21 N 39 | 1 N 53 | 10 N 21 | 1 N 5 | 14 N 48 |
| 4 | 16 | 15 | 0 2 | 21 39 | 1 53 | 10 26 | 1 5 | 14 56 |
| 7 | 16 | 15 | 0 2 | 21 38 | 1 54 | 10 31 | 1 6 | 15 4 |
| 10 | 16 | 14 | 0 2 | 21 38 | 1 54 | 10 37 | 1 6 | 15 12 |
| 13 | 16 | 14 | 0 2 | 21 38 | 1 54 | 10 42 | 1 6 | 15 20 |
| 16 | 16 | 13 | 0 2 | 21 38 | 1 55 | 10 48 | 1 7 | 15 28 |
| 19 | 16 | 12 | 0 2 | 21 38 | 1 55 | 10 53 | 1 7 | 15 36 |
| 22 | 16 | 12 | 0 1 | 21 38 | 1 55 | 10 59 | 1 7 | 15 43 |
| 25 | 16 | 11 | 0 1 | 21 39 | 1 55 | 11 5 | 1 7 | 15 50 |
| 28 | 16 | 10 | 0 1 | 21 39 | 1 56 | 11 10 | 1 8 | 15 57 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☾
Long. | ☾
Lat. | ☾
Declin. | ♂
Long. |
|--------|--------|-------------------|---------------------|--------------|---------------------|-----------|--------------|------------|
| | | H. M. S. | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | F | 20 46 42 | 12 ^m 41 | 2 17 S | 1 0 ^m 40 | 5 S 12 | 16 S 35 | 8 11 7 |
| 2 | S | 20 50 38 | 13 41 52 | 16 44 | 14 47 | 4 52 20 | 56 | 8 11 7 |
| 3 | S | 20 54 35 | 14 42 42 | 16 26 | 28 39 | 4 15 24 | 1 | 8 11 6 |
| 4 | M | 20 58 31 | 15 43 31 | 16 8 | 12 16 | 3 24 25 | 40 | 8 11 6 |
| 5 | Tu | 21 2 28 | 16 44 19 | 15 50 | 25 38 | 2 23 25 | 47 | 8 11 6 |
| 6 | W | 21 6 24 | 17 45 6 | 15 31 | 8 ^w 46 | 1 16 24 | 26 | 8 11 5 |
| 7 | Th | 21 10 21 | 18 45 52 | 15 13 | 21 41 | 0 6 21 | 48 | 8 11 5 |
| 8 | F | 21 14 17 | 19 46 36 | 14 54 | 4 ^m 25 | 1 N 4 18 | 8 | 8 11 5 |
| 9 | S | 21 18 14 | 20 47 20 | 14 35 | 16 57 | 2 9 13 | 43 | 8 11 4 |
| 10 | S | 21 22 11 | 21 48 2 | 14 15 | 29 19 | 3 7 8 | 48 | 8 11 4 |
| 11 | M | 21 26 7 | 22 48 42 | 13 55 | 11 [×] 31 | 3 56 3 | 37 | 8 11 4 |
| 12 | Tu | 21 30 4 | 23 49 21 | 13 35 | 23 34 | 4 33 1 | N 37 | 8 11 4 |
| 13 | W | 21 34 0 | 24 49 59 | 13 15 | 5 ^r 31 | 4 58 6 | 45 | 8 11 3 |
| 14 | Th | 21 37 57 | 25 50 34 | 12 55 | 17 23 | 5 10 11 | 36 | 8 11 3 |
| 15 | F | 21 41 53 | 26 51 8 | 12 34 | 29 15 | 5 9 16 | 1 | 8 11 3 |
| 16 | S | 21 45 50 | 27 51 41 | 12 14 | 11 ⁸ 8 | 4 54 19 | 50 | 8 11 3 |
| 17 | S | 21 49 46 | 28 52 11 | 11 53 | 23 9 | 4 27 22 | 53 | 8 D 4 |
| 18 | M | 21 53 43 | 29 52 39 | 11 31 | 5 [□] 21 | 3 47 24 | 56 | 8 11 4 |
| 19 | Tu | 21 57 40 | 0 [×] 53 6 | 11 10 | 17 50 | 2 56 25 | 49 | 8 11 4 |
| 20 | W | 22 1 36 | 1 53 31 | 10 49 | 0 ⁵ 39 | 1 54 25 | 22 | 8 11 5 |
| 21 | Th | 22 5 33 | 2 53 54 | 10 27 | 13 53 | 0 45 23 | 29 | 8 11 5 |
| 22 | F | 22 9 29 | 3 54 15 | 10 5 | 27 35 | 0 S 29 | 20 11 | 8 11 5 |
| 23 | S | 22 13 26 | 4 54 34 | 9 43 | 11 ^Ω 43 | 1 44 15 | 37 | 8 11 6 |
| 24 | S | 22 17 22 | 5 54 51 | 9 21 | 26 17 | 2 54 10 | 2 | 8 11 6 |
| 25 | M | 22 21 19 | 6 55 6 | 8 59 | 11 ^m 9 | 3 53 3 | 47 | 8 11 7 |
| 26 | Tu | 22 25 15 | 7 55 20 | 8 36 | 26 13 | 4 37 2 | S 41 | 8 11 7 |
| 27 | W | 22 29 12 | 8 55 32 | 8 14 | 11 ¹ 17 | 5 2 9 | 6 | 8 11 8 |
| 28 | Th | 22 33 9 | 9 55 43 | 7 51 | 26 13 | 5 6 14 | 53 | 8 11 8 |

FEBRUARY XXVIII DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 14 | 7 N 39 | 0 N 8 | 22 S 12 | 2 S 5 | 18 S 47 | 21 W 45 |
| 4 | 0 17 | 8 28 | 0 S 5 | 21 47 | 2 0 | 17 6 | 21 35 |
| 7 | 0 20 | 9 16 | 0 14 | 21 17 | 1 50 | 15 13 | 21 26 |
| 10 | 0 23 | 10 4 | 0 21 | 20 41 | 1 36 | 13 6 | 21 16 |
| 13 | 0 25 | 10 51 | 0 29 | 19 59 | 1 16 | 10 49 | 21 7 |
| 16 | 0 28 | 11 37 | 0 36 | 19 18 | 0 51 | 8 23 | 20 57 |
| 19 | 0 30 | 12 22 | 0 44 | 18 20 | 0 16 | 5 53 | 20 48 |
| 22 | 0 32 | 13 6 | 0 50 | 17 23 | 0 N 24 | 3 25 | 20 38 |
| 25 | 0 34 | 13 49 | 0 55 | 16 22 | 1 4 | 1 8 | 20 28 |
| 28 | 0 36 | 14 32 | 1 0 | 15 17 | 1 48 | 0 N 40 | 20 19 |

| D
M | h | | u | | δ | | ♀ | | ♂ | | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|----------------|---|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | ☉ | ☿ | h | u | δ | ♀ | ♂ |
| 1 | 7 | 55 | 23 | 16 | 18 | 57 | 17 | 58 | 13 | 26 | | | | | | | | |
| 2 | 7 | 51 | 23 | 8 | 19 | 38 | 19 | 18 | 15 | 12 | | ☐ | | * | | | * | ☐ |
| 3 | 7 | 47 | 23 | 0 | 20 | 19 | 20 | 28 | 16 | 58 | ♀ ☐ ♂ | * | ♂ | ☐ | | | | |
| 4 | 7 | 43 | 22 | 52 | 21 | 0 | 21 | 42 | 18 | 45 | | * | | ☐ | | | | |
| 5 | 7 | 39 | 22 | 44 | 21 | 41 | 22 | 57 | 20 | 32 | ♀ ☐ h | | | | Δ | Δ | | * |
| 6 | 7 | 34 | 22 | 36 | 22 | 22 | 24 | 11 | 22 | 20 | ☿ | | | Δ | | | | |
| 7 | 7 | 30 | 22 | 29 | 23 | 3 | 25 | 26 | 24 | 9 | ♂ | | | | | ☐ | ♂ | |
| 8 | 7 | 25 | 22 | 21 | 23 | 44 | 26 | 40 | 25 | 58 | | | | | | | | |
| 9 | 7 | 21 | 22 | 18 | 24 | 25 | 27 | 55 | 27 | 47 | | | | ♂ | | | | |
| 10 | 7 | 16 | 22 | 5 | 25 | 6 | 29 | 10 | 29 | 37 | ♄ | | | | | * | | ♂ |
| 11 | 7 | 12 | 21 | 57 | 25 | 48 | 0 | 25 | 1 | 26 | | | ☐ | ♂ | | | | |
| 12 | 7 | 7 | 21 | 49 | 26 | 29 | 1 | 39 | 8 | 16 | | | | | | | | |
| 13 | 7 | 2 | 21 | 41 | 27 | 10 | 2 | 54 | 6 | 6 | | | * | | | | * | |
| 14 | 6 | 58 | 21 | 33 | 27 | 51 | 4 | 8 | 6 | 55 | ♂ ♂ h | | | | Δ | | | |
| 15 | 6 | 53 | 21 | 25 | 28 | 32 | 5 | 23 | 8 | 43 | ♂ ☐ h | * | | | | | ♂ | |
| 16 | 6 | 48 | 21 | 17 | 29 | 12 | 6 | 38 | 10 | 31 | | | | | Δ | | | ☐ |
| 17 | 6 | 44 | 21 | 9 | 29 | 53 | 7 | 53 | 12 | 17 | ♀ Δ h | | | | | ☐ | | |
| 18 | 6 | 39 | 21 | 1 | 0 | 34 | 9 | 7 | 14 | 2 | | ☐ | ♂ | ☐ | | | | Δ |
| 19 | 6 | 34 | 20 | 54 | 1 | 15 | 10 | 22 | 15 | 44 | ♂ Δ ♂ | | | | * | | | ☐ |
| 20 | 6 | 29 | 20 | 46 | 1 | 56 | 11 | 36 | 17 | 24 | ☉ * ♂ | Δ | | * | | * | | |
| 21 | 6 | 25 | 20 | 38 | 2 | 36 | 12 | 51 | 19 | 0 | | | | | | | | Δ |
| 22 | 6 | 20 | 20 | 31 | 3 | 17 | 14 | 5 | 20 | 33 | | | | | | | ☐ | |
| 23 | 6 | 15 | 20 | 23 | 3 | 58 | 15 | 20 | 22 | 2 | | | * | | | | ♂ | |
| 24 | 6 | 10 | 20 | 16 | 4 | 39 | 16 | 35 | 23 | 26 | ☉ ♂ h | | | | | ♂ | | |
| 25 | 6 | 5 | 20 | 9 | 5 | 19 | 17 | 50 | 24 | 44 | | ♂ | ☐ | ♂ | | Δ | | |
| 26 | 6 | 1 | 20 | 1 | 6 | 0 | 19 | 4 | 25 | 56 | ☉ ☐ h | | | | | | | ♂ |
| 27 | 6 | 55 | 19 | 54 | 6 | 40 | 20 | 19 | 27 | 1 | ♀ ♂ h | | | Δ | | | | |
| 28 | 6 | 50 | 19 | 47 | 7 | 21 | 21 | 33 | 27 | 59 | | | | | | * | | Δ |

| 6 | | RAPHAEL'S ASTRONOMICAL EPHEMERIS. | | | | | | | | | | [1861. | | | |
|------------------|-------------------|-----------------------------------|-----------|------------|---------|-------------|----------|------------|-------|-----------|-----|-------------|-------|------------|------|
| MARCH XXXI DAYS. | | | | | | | | | | | | | | | |
| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | | | | | | | |
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | | | | | | | |
| | ' | " | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | |
| 1 | 16 | 9 | 08 | 1 | 21 | N39 | 1 | N56 | 11 | N12 | 1 | N 7 | 15 | N59 | |
| 4 | 16 | 8 | 0 | 1 | 21 | 40 | 1 | 56 | 11 | 17 | 1 | 7 | 16 | | |
| 7 | 16 | 8 | 0 | 1 | 21 | 40 | 1 | 56 | 11 | 23 | 1 | 7 | 16 | 12 | |
| 10 | 16 | 7 | 0 | 1 | 21 | 41 | 1 | 56 | 11 | 28 | 1 | 7 | 16 | 17 | |
| 13 | 16 | 6 | 0 | 1 | 21 | 42 | 1 | 56 | 11 | 33 | 1 | 6 | 16 | 22 | |
| 16 | 16 | 5 | 0 | 1 | 21 | 42 | 1 | 56 | 11 | 38 | 1 | 6 | 16 | 27 | |
| 19 | 16 | 4 | 0 | 1 | 21 | 43 | 1 | 56 | 11 | 42 | 1 | 6 | 16 | 31 | |
| 22 | 16 | 4 | 0 | 1 | 21 | 44 | 1 | 56 | 11 | 47 | 1 | 6 | 16 | 35 | |
| 25 | 16 | 3 | 0 | 1 | 21 | 45 | 1 | 56 | 11 | 51 | 1 | 6 | 16 | 38 | |
| 28 | 16 | 2 | 0 | 1 | 21 | 46 | 1 | 56 | 11 | 55 | 1 | 6 | 16 | 42 | |
| 31 | 16 | 1 | 0 | 1 | 21 | 47 | 1 | 56 | 11 | 58 | 1 | 6 | 16 | 46 | |
| D
M | D
W | Sidereal
Time. | | ☉
Long. | | ☉
Declin | | ☽
Long. | | ☽
Lat. | | ☽
Declin | | ♂
Long. | |
| | | H. | M. | S. | ° | ' | " | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | F | 22 | 37 | 5 | 10 | × | 55 52 | 7 | S 28 | 10 | m53 | 4 | S 50 | 19 | S 41 |
| 2 | S | 22 | 41 | 2 | 11 | | 55 59 | 7 | 6 25 | 11 | | 4 | 16 23 | 13 | 8 10 |
| 3 | S | 22 | 44 | 58 | 12 | | 56 5 | 6 | 43 9 | † 6 | | 3 | 28 25 | 15 | 8 11 |
| 4 | M | 22 | 48 | 55 | 13 | | 56 9 | 6 | 19 22 | 39 | | 2 | 29 25 | 44 | 8 12 |
| 5 | Tu | 22 | 52 | 51 | 14 | | 56 12 | 5 | 56 5 | w 49 | | 1 | 23 24 | 43 | 8 13 |
| 6 | W | 22 | 56 | 48 | 15 | | 56 13 | 5 | 33 18 | 41 | | 0 | 53 22 | 24 | 8 14 |
| 7 | Th | 23 | 0 | 44 | 16 | | 56 12 | 5 | 10 1 | m 19 | | 0 | N 15 | 19 | 8 15 |
| 8 | F | 23 | 4 | 41 | 17 | | 56 10 | 4 | 46 13 | 45 | | 1 | 56 14 | 51 | 8 16 |
| 9 | S | 23 | 8 | 38 | 18 | | 56 6 | 4 | 23 26 | 1 | | 2 | 54 10 | 8 | 8 17 |
| 10 | S | 23 | 12 | 34 | 19 | | 56 0 | 3 | 59 8 | × | 9 | 3 | 42 5 | 5 | 8 18 |
| 11 | M | 23 | 16 | 31 | 20 | | 55 52 | 3 | 36 20 | 11 | | 4 | 21 0 | N 6 | 8 20 |
| 12 | Tu | 23 | 20 | 27 | 21 | | 55 42 | 3 | 12 2 | r 9 | | 4 | 47 5 | 14 | 8 21 |
| 13 | W | 23 | 24 | 24 | 22 | | 55 30 | 2 | 49 14 | 2 | | 5 | 1 10 | 9 | 8 23 |
| 14 | Th | 23 | 28 | 20 | 23 | | 55 16 | 2 | 25 25 | 54 | | 5 | 1 14 | 41 | 8 24 |
| 15 | F | 23 | 32 | 17 | 24 | | 55 0 | 2 | 1 7 | 8 46 | | 4 | 49 18 | 39 | 8 25 |
| 16 | S | 23 | 36 | 13 | 25 | | 54 42 | 1 | 38 19 | 40 | | 4 | 24 21 | 54 | 8 27 |
| 17 | S | 23 | 40 | 10 | 26 | | 54 21 | 1 | 14 1 | □ 40 | | 3 | 47 24 | 13 | 8 29 |
| 18 | M | 23 | 44 | 7 | 27 | | 53 59 | 0 | 50 13 | 49 | | 3 | 0 25 | 27 | 8 30 |
| 19 | Tu | 23 | 48 | 3 | 28 | | 53 33 | 0 | 26 26 | 13 | | 2 | 3 25 | 27 | 8 32 |
| 20 | W | 23 | 52 | 0 | 29 | | 53 6 | 0 | 3 8 | 57 | | 0 | 58 24 | 8 | 8 33 |
| 21 | Th | 23 | 55 | 56 | 0 | r | 52 36 | 0 | N 21 | 22 | 4 | 0 | S 11 | 21 | 28 |
| 22 | F | 23 | 59 | 53 | 1 | | 52 4 | 0 | 45 5 | Ω 39 | | 1 | 22 17 | 33 | 8 37 |
| 23 | S | 0 | 3 | 49 | 2 | | 51 29 | 1 | 8 19 | 43 | | 2 | 31 12 | 32 | 8 38 |
| 24 | S | 0 | 7 | 46 | 3 | | 50 53 | 1 | 32 4 | w 16 | | 3 | 32 6 | 40 | 8 41 |
| 25 | M | 0 | 11 | 42 | 4 | | 50 14 | 1 | 55 19 | 14 | | 4 | 20 0 | 17 | 8 43 |
| 26 | Tu | 0 | 15 | 39 | 5 | | 49 33 | 2 | 19 4 | △ 29 | | 4 | 51 6 | S 14 | 8 45 |
| 27 | W | 0 | 19 | 36 | 6 | | 48 50 | 2 | 42 19 | 49 | | 5 | 1 12 | 24 | 8 47 |
| 28 | Th | 0 | 23 | 32 | 7 | | 48 6 | 3 | 6 5 | m 4 | | 4 | 49 17 | 46 | 8 48 |
| 29 | F | 0 | 27 | 29 | 8 | | 47 19 | 3 | 29 20 | 2 | | 4 | 18 21 | 55 | 8 51 |
| 30 | S | 0 | 31 | 25 | 9 | | 46 30 | 3 | 53 4 | † 37 | | 3 | 31 24 | 32 | 8 53 |
| 31 | S | 0 | 35 | 22 | 10 | | 45 39 | 4 | 16 18 | 43 | | 2 | 32 25 | 30 | 8 55 |

MARCH XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 0 N 37 | 14 N 46 | 1 S 2 | 14 S 54 | 2 N 1 | 1 N 23 | 20 w 15 |
| 4 | 0 39 | 15 26 | 1 7 | 13 44 | 2 40 | 2 39 | 20 6 |
| 7 | 0 40 | 16 6 | 1 12 | 12 31 | 3 11 | 3 16 | 19 56 |
| 10 | 0 42 | 16 44 | 1 16 | 11 14 | 3 30 | 3 11 | 19 47 |
| 13 | 0 44 | 17 22 | 1 20 | 9 55 | 3 38 | 2 26 | 19 37 |
| 16 | 0 46 | 17 57 | 1 23 | 8 33 | 3 20 | 1 10 | 19 28 |
| 19 | 0 47 | 18 32 | 1 25 | 7 9 | 2 53 | 0 S 22 | 19 18 |
| 22 | 0 48 | 19 5 | 1 26 | 5 43 | 2 16 | 1 55 | 19 9 |
| 25 | 0 49 | 19 37 | 1 27 | 4 16 | 1 26 | 3 15 | 18 59 |
| 28 | 0 51 | 20 7 | 1 27 | 2 48 | 0 38 | 4 16 | 18 50 |
| 31 | 0 52 | 20 36 | 1 28 | 1 20 | 0 S 4 | 4 54 | 18 41 |

| D
M | ♂ | | ♀ | | ☿ | | Mutual
Aspts. | Lunar Aspects. | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | Long. | | ☉ | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ | ☿ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | | | |
| 1 | 5 w 46 | 19 Ω 40 | 8 δ 2 | 22 m 48 | 28 × 50 | | | Δ | * | | ♂ | | | | |
| 2 | 5 R 41 | 19 R 33 | 8 42 | 24 2 | 29 38 | | | | | | | □ | | □ | Δ |
| 3 | 5 36 | 19 26 | 9 22 | 25 16 | 0 r 6 | | | □ | ♂ | □ | | | Δ | * | |
| 4 | 5 32 | 19 20 | 10 3 | 26 31 | 0 30 | | | | | | Δ | | | * | |
| 5 | 5 27 | 19 13 | 10 43 | 27 46 | 0 45 | | | | | Δ | | Δ | | | □ |
| 6 | 5 22 | 19 6 | 11 23 | 29 0 | 0 52 | | | * | | | | | | | |
| 7 | 5 17 | 19 0 | 12 3 | 0 × 15 | 0 R 48 | | | | | | | | | | * |
| 8 | 5 13 | 18 54 | 12 44 | 1 30 | 0 36 | ♂ P ♀ | | | Δ | | ♂ | □ | | | |
| 9 | 5 8 | 18 48 | 13 25 | 2 45 | 0 17 | | | | | | | | | | |
| 10 | 5 4 | 18 42 | 14 5 | 3 59 | 29 □ 50 | ♀ ∠ ♂ | | | □ | ♂ | | | | ♂ | |
| 11 | 4 59 | 18 37 | 14 46 | 5 14 | 29 15 | ♀ ♂ ♀ | | ♂ | * | | | | * | | |
| 12 | 4 55 | 18 31 | 15 27 | 6 28 | 28 35 | | | | * | | | | | | ♂ |
| 13 | 4 50 | 18 26 | 16 7 | 7 43 | 27 49 | | | | | | Δ | | | | |
| 14 | 4 46 | 18 20 | 16 48 | 8 57 | 26 58 | ♀ □ ♀ | | | | | | | | | |
| 15 | 4 41 | 18 15 | 17 28 | 10 12 | 26 4 | | | | | Δ | | | | * | |
| 16 | 4 37 | 18 10 | 18 8 | 11 26 | 25 8 | ☉ ♂ ♀ | | * | | | □ | ♂ | | * | |
| 17 | 4 32 | 18 5 | 18 48 | 12 41 | 24 12 | | | * | | ♂ | □ | * | | □ | |
| 18 | 4 28 | 18 0 | 19 29 | 13 55 | 23 17 | | | | ♂ | | | * | | | |
| 19 | 4 24 | 17 56 | 19 9 | 15 10 | 22 24 | | | □ | | | * | | | | □ |
| 20 | 4 20 | 17 51 | 19 49 | 16 24 | 21 33 | ♀ * ♂ | | | | * | | | | | |
| 21 | 4 16 | 17 47 | 19 29 | 17 39 | 20 46 | | | | | | | | * | Δ | Δ |
| 22 | 4 12 | 17 43 | 18 9 | 18 53 | 20 3 | ♀ ♂ ♀ | | Δ | * | | | | * | | |
| 23 | 4 8 | 17 39 | 19 49 | 20 7 | 19 25 | ☉ □ ♀ | | | | ♂ | | ♂ | □ | | |
| 24 | 4 4 | 17 35 | 19 29 | 21 21 | 18 52 | | | | □ | ♂ | | | | | |
| 25 | 4 0 | 17 32 | 19 9 | 22 36 | 18 26 | | | | | | | Δ | ♂ | ♂ | |
| 26 | 3 56 | 17 29 | 19 49 | 23 50 | 18 5 | | | ♂ | Δ | | | | | | |
| 27 | 3 52 | 17 26 | 19 29 | 25 5 | 17 50 | | | | | | * | | | | |
| 28 | 3 49 | 17 22 | 19 9 | 26 19 | 17 40 | ♀ * ♂ | | | | * | | | | | |
| 29 | 3 45 | 17 20 | 19 49 | 27 34 | 17 37 | ☉ * ♀ | | | | | □ | ♂ | | | Δ |
| 30 | 3 42 | 17 17 | 19 29 | 28 48 | 17 D 37 | | | Δ | ♂ | □ | | | Δ | | |
| 31 | 3 39 | 17 14 | 19 9 | 0 r 2 | 17 45 | | | | | | Δ | | | | □ |

APRIL XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 2 | 08 1 | 21 N47 | 1 N56 | 11 N59 | 1 N 6 | 16 N44 |
| 4 | 16 | 1 | 0 1 | 21 48 | 1 55 | 12 3 | 1 6 | 16 45 |
| 7 | 16 | 0 | 0 1 | 21 49 | 1 55 | 12 5 | 1 5 | 16 46 |
| 10 | 15 | 59 | 0 1 | 21 51 | 1 55 | 12 8 | 1 5 | 16 45 |
| 13 | 15 | 58 | 0 1 | 21 52 | 1 55 | 12 10 | 1 5 | 16 46 |
| 16 | 15 | 58 | 0 1 | 21 53 | 1 54 | 12 12 | 1 4 | 16 46 |
| 19 | 15 | 57 | 0 1 | 21 54 | 1 54 | 12 14 | 1 4 | 16 44 |
| 22 | 15 | 56 | 0 1 | 21 56 | 1 54 | 12 15 | 1 3 | 16 43 |
| 25 | 15 | 55 | 0 1 | 21 57 | 1 54 | 12 16 | 1 3 | 16 40 |
| 28 | 15 | 55 | 0 1 | 21 59 | 1 54 | 12 16 | 1 3 | 16 35 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|------------|---------------|-------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° |
| 1 | M | 0 39 18 | 11 r 44 47 | 4 N89 | 2 w 21 | 1 S 26 | 24 S 52 | 8 π 57 |
| 2 | Tu | 0 43 15 | 12 43 53 | 5 2 15 33 | 0 17 22 | 50 | 8 59 | 8 59 |
| 3 | W | 0 47 11 | 13 42 57 | 5 25 28 27 | 0 N50 | 19 41 | 9 2 | 9 2 |
| 4 | Th | 0 51 8 | 14 42 0 | 5 48 10 m 52 | 1 54 15 42 | 9 4 | 9 4 | 9 4 |
| 5 | F | 0 55 4 | 15 41 0 | 6 11 23 8 | 2 50 11 8 | 9 7 | 9 7 | 9 7 |
| 6 | S | 0 59 1 | 16 39 59 | 6 33 5 x 15 | 3 39 6 12 | 9 9 | 9 9 | 9 9 |
| 7 | S | 1 2 58 | 17 38 56 | 6 56 17 14 | 4 17 1 6 | 9 12 | 9 12 | 9 12 |
| 8 | M | 1 6 54 | 18 37 52 | 7 18 29 9 | 4 43 3 N59 | 9 14 | 9 14 | 9 14 |
| 9 | Tu | 1 10 51 | 19 36 45 | 7 41 11 r 1 | 4 57 8 55 | 9 17 | 9 17 | 9 17 |
| 10 | W | 1 14 47 | 20 35 36 | 8 3 22 53 | 4 58 13 31 | 9 19 | 9 19 | 9 19 |
| 11 | Th | 1 18 44 | 21 34 25 | 8 25 4 x 46 | 4 46 17 36 | 9 22 | 9 22 | 9 22 |
| 12 | F | 1 22 40 | 22 33 13 | 8 47 16 41 | 4 22 21 1 | 9 24 | 9 24 | 9 24 |
| 13 | S | 1 26 37 | 23 31 58 | 9 9 28 39 | 3 45 23 32 | 9 27 | 9 27 | 9 27 |
| 14 | S | 1 30 33 | 24 30 40 | 9 30 10 π 43 | 2 59 25 1 | 9 30 | 9 30 | 9 30 |
| 15 | M | 1 34 30 | 25 29 21 | 9 52 22 56 | 2 3 25 19 | 9 32 | 9 32 | 9 32 |
| 16 | Tu | 1 38 27 | 26 28 0 | 10 13 5 x 21 | 1 1 24 22 | 9 35 | 9 35 | 9 35 |
| 17 | W | 1 42 23 | 27 26 36 | 10 34 18 3 | 0 S 6 22 9 | 9 38 | 9 38 | 9 38 |
| 18 | Th | 1 46 20 | 28 25 10 | 10 55 1 Ω 5 | 1 14 18 44 | 9 41 | 9 41 | 9 41 |
| 19 | F | 1 50 16 | 29 23 42 | 11 16 14 33 | 2 20 14 14 | 9 44 | 9 44 | 9 44 |
| 20 | S | 1 54 13 | 0 x 22 11 | 11 37 28 27 | 3 21 8 53 | 9 47 | 9 47 | 9 47 |
| 21 | S | 1 58 9 | 1 20 39 | 11 57 12 w 50 | 4 11 2 53 | 9 50 | 9 50 | 9 50 |
| 22 | M | 2 2 6 | 2 19 4 | 12 17 27 38 | 4 45 3 S 25 | 9 53 | 9 53 | 9 53 |
| 23 | Tu | 2 6 2 | 3 17 28 | 12 37 12 x 45 | 5 1 9 39 | 9 56 | 9 56 | 9 56 |
| 24 | W | 2 9 59 | 4 15 49 | 12 57 28 3 | 4 55 15 23 | 9 59 | 9 59 | 9 59 |
| 25 | Th | 2 13 56 | 5 14 9 | 13 17 13 m 20 | 4 29 20 7 | 10 2 | 10 2 | 10 2 |
| 26 | F | 2 17 52 | 6 12 26 | 13 36 28 25 | 3 44 23 27 | 10 3 | 10 3 | 10 3 |
| 27 | S | 2 21 49 | 7 10 43 | 13 55 13 f 9 | 2 45 25 7 | 10 5 | 10 5 | 10 5 |
| 28 | S | 2 25 45 | 8 8 57 | 14 14 27 25 | 1 37 25 2 | 10 11 | 10 11 | 10 11 |
| 29 | M | 2 29 42 | 9 7 10 | 14 33 11 w 12 | 0 25 23 24 | 10 14 | 10 14 | 10 14 |
| 30 | Tu | 2 33 38 | 10 5 21 | 14 51 24 31 | 0 N46 20 29 | 10 17 | 10 17 | 10 17 |

APRIL XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 0 N 53 | 20 N 46 | 1 S 28 | 0 S 50 | 0 S 18 | 5 S 2 | 18 w 38 |
| 4 | 0 54 | 21 12 | 1 27 | 0 N 39 | 0 57 | 5 10 | 18 28 |
| 7 | 0 55 | 21 38 | 1 25 | 2 9 | 1 27 | 4 58 | 18 19 |
| 10 | 0 57 | 22 1 | 1 23 | 3 38 | 1 54 | 4 27 | 18 9 |
| 13 | 0 58 | 22 23 | 1 21 | 5 6 | 2 15 | 3 39 | 17 59 |
| 16 | 0 58 | 22 44 | 1 18 | 6 34 | 2 30 | 2 36 | 17 50 |
| 19 | 0 59 | 23 2 | 1 14 | 8 0 | 2 40 | 1 19 | 17 40 |
| 22 | 1 0 | 23 19 | 1 10 | 9 25 | 2 44 | 0 N 10 | 17 31 |
| 25 | 1 1 | 23 35 | 1 6 | 10 47 | 2 46 | 1 50 | 17 21 |
| 28 | 1 2 | 23 48 | 1 1 | 12 8 | 2 41 | 3 41 | 17 12 |

| D
M | ♄ | ♅ | ♆ | ♇ | ♈ | Mutual
Aspts. | Lunar Aspects. | | | | | | |
|--------|--------|---------|---------|----------|---------|------------------|----------------|---|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♄ | ♅ | ♆ | ♇ | ♈ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | | |
| 1 | 3 w 36 | 17 Q 12 | 28 x 49 | 1 r 16 | 17 * 57 | | | | Δ | | | □ | * |
| 2 | 3 B 33 | 17 B 10 | 29 29 | 2 31 18 | 15 | ♀ □ ♄ | □ | | | | | | * |
| 3 | 3 30 | 17 8 | 0 □ 9 | 3 45 18 | 37 | | * | Δ | | | Δ | * | |
| 4 | 3 27 | 17 7 | 0 49 | 5 0 19 | 4 | | | | | | | | |
| 5 | 3 24 | 17 5 | 1 28 | 6 14 19 | 36 | | | | | ♄ | | | |
| 6 | 3 21 | 17 4 | 2 8 | 7 29 20 | 12 | ☉ Δ ♄ | | □ | ♄ | | □ | | ♄ |
| 7 | 3 18 | 17 3 | 2 47 | 8 43 20 | 51 | ♀ * ☿ | | | | | | | ♄ |
| 8 | 3 15 | 17 2 | 3 27 | 9 57 21 | 34 | ♄ □ ♄ | | | | | * | | ♄ |
| 9 | 3 13 | 17 1 | 4 7 | 11 12 22 | 21 | | | * | | | | ♄ | |
| 10 | 3 11 | 17 1 | 4 47 | 12 26 23 | 11 | | ♄ | | | Δ | | | |
| 11 | 3 8 | 17 1 | 5 26 | 13 40 24 | 6 | | | | Δ | | | | |
| 12 | 3 6 | 17 0 | 6 6 | 14 54 25 | 0 | | | | | □ | | | |
| 13 | 3 4 | 17 0 | 6 45 | 16 9 26 | 1 | | | | □ | | | | * |
| 14 | 3 2 | 17 D 1 | 7 25 | 17 23 27 | 3 | ♀ Δ ♄ | | ♄ | | | ♄ | | |
| 15 | 3 0 | 17 1 | 8 5 | 18 37 28 | 8 | | * | | | * | * | * | □ |
| 16 | 2 58 | 17 1 | 8 45 | 19 51 29 | 15 | | | | * | | | | |
| 17 | 2 56 | 17 2 | 9 24 | 21 5 | 0 r 25 | ♄ ☿ ☿ | | | | | | □ | Δ |
| 18 | 2 54 | 17 3 | 10 4 | 22 19 | 1 37 | | □ | | | | | | |
| 19 | 2 52 | 17 4 | 10 43 | 23 33 | 2 51 | | | * | | ♄ | * | | |
| 20 | 2 50 | 17 5 | 11 22 | 24 47 | 4 8 | ♀ ∠ ☿ | Δ | | ♄ | | | Δ | |
| 21 | 2 48 | 17 7 | 12 1 | 26 1 | 5 27 | | | □ | | | | □ | |
| 22 | 2 47 | 17 9 | 12 41 | 27 15 | 6 48 | ☉ Δ ♄ | | | | | | | |
| 23 | 2 46 | 17 11 | 13 20 | 28 29 | 8 11 | ♀ ∠ ♄ | | Δ | | * | Δ | | ♄ |
| 24 | 2 45 | 17 13 | 14 0 | 29 43 | 9 36 | ♀ * ☿ | ♄ | | * | | | ♄ | |
| 25 | 2 44 | 17 15 | 14 39 | 0 57 | 11 3 | | | | | □ | | | |
| 26 | 2 44 | 17 17 | 15 18 | 2 11 | 12 32 | ♀ Δ ♄ | | | ♄ | □ | | | Δ |
| 27 | 2 43 | 17 19 | 15 57 | 3 25 | 14 3 | | | ♄ | | Δ | ♄ | | Δ |
| 28 | 2 43 | 17 22 | 16 37 | 4 39 | 15 36 | | | | Δ | | | | |
| 29 | 2 42 | 17 25 | 17 16 | 5 54 | 17 10 | ♀ Δ ♄ | Δ | | | | | Δ | |
| 30 | 2 42 | 17 28 | 17 55 | 7 8 | 18 46 | | | | | | | | □ |

MAY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 52 | 0 S 1 | 22 N 0 | 1 N 53 | 12 N 17 | 1 N 3 | 16 N 35 |
| 4 | 15 | 52 | 0 1 | 22 1 | 1 53 | 12 16 | 1 3 | 16 31 |
| 7 | 15 | 51 | 0 1 | 22 3 | 1 53 | 12 16 | 1 2 | 16 27 |
| 10 | 15 | 51 | 0 1 | 22 4 | 1 52 | 12 15 | 1 2 | 16 22 |
| 13 | 15 | 50 | 0 1 | 22 6 | 1 52 | 12 14 | 1 1 | 16 17 |
| 16 | 15 | 49 | 0 1 | 22 7 | 1 51 | 12 12 | 1 1 | 16 12 |
| 19 | 15 | 49 | 0 1 | 22 9 | 1 50 | 12 10 | 1 1 | 16 6 |
| 22 | 15 | 48 | 0 1 | 22 10 | 1 49 | 12 8 | 1 1 | 16 0 |
| 25 | 15 | 48 | 0 1 | 22 11 | 1 49 | 12 5 | 1 0 | 15 53 |
| 28 | 15 | 47 | 0 1 | 22 13 | 1 48 | 12 3 | 1 0 | 15 46 |
| 31 | 15 | 47 | 0 1 | 22 14 | 1 48 | 11 59 | 1 0 | 15 38 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♃
Long. | ♃
Lat. | ♃
Declin | ♃
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | W | 2 37 35 | 11 8 3 31 | 15 N 9 | 7 24 | 1 N 52 | 16 S 38 | 10 20 |
| 2 | Th | 2 41 32 | 12 1 40 | 15 27 | 19 56 | 2 51 | 12 9 | 10 23 |
| 3 | F | 2 45 28 | 12 59 47 | 15 45 | 2 11 | 3 40 | 7 16 | 10 26 |
| 4 | S | 2 49 25 | 13 57 53 | 16 3 | 14 14 | 4 19 | 2 13 | 10 29 |
| 5 | S | 2 53 21 | 14 55 57 | 16 20 | 26 10 | 4 46 | 2 N 51 | 10 32 |
| 6 | M | 2 57 18 | 15 54 0 | 16 37 | 8 2 | 5 1 | 7 48 | 10 35 |
| 7 | Tu | 3 1 14 | 16 52 1 | 16 53 | 19 53 | 5 3 | 12 27 | 10 39 |
| 8 | W | 3 5 11 | 17 50 1 | 17 10 | 1 46 | 4 51 | 16 39 | 10 42 |
| 9 | Th | 3 9 7 | 18 48 0 | 17 26 | 13 41 | 4 27 | 20 12 | 10 45 |
| 10 | F | 3 13 4 | 19 45 57 | 17 42 | 25 42 | 3 51 | 22 56 | 10 48 |
| 11 | S | 3 17 0 | 20 43 52 | 17 57 | 7 49 | 3 4 | 24 39 | 10 52 |
| 12 | S | 3 20 57 | 21 41 46 | 18 12 | 20 3 | 2 8 | 25 12 | 10 55 |
| 13 | M | 3 24 54 | 22 39 38 | 18 27 | 2 26 | 1 5 | 24 31 | 10 59 |
| 14 | Tu | 3 28 50 | 23 37 28 | 18 42 | 15 1 | 0 S | 22 34 | 11 2 |
| 15 | W | 3 32 47 | 24 35 17 | 18 56 | 27 50 | 1 11 | 19 27 | 11 6 |
| 16 | Th | 3 36 43 | 25 33 4 | 19 10 | 10 57 | 2 17 | 15 18 | 11 9 |
| 17 | F | 3 40 40 | 26 30 49 | 19 23 | 24 23 | 3 18 | 10 18 | 11 13 |
| 18 | S | 3 44 36 | 27 28 33 | 19 37 | 8 10 | 4 9 | 4 40 | 11 17 |
| 19 | S | 3 48 33 | 28 26 15 | 19 50 | 22 21 | 4 46 | 1 S 20 | 11 20 |
| 20 | M | 3 52 29 | 29 23 55 | 20 2 | 6 53 | 5 6 | 7 25 | 11 24 |
| 21 | Tu | 3 56 26 | 0 21 34 | 20 15 | 21 43 | 5 6 | 13 11 | 11 27 |
| 22 | W | 4 0 23 | 1 19 12 | 20 26 | 6 43 | 4 45 | 18 15 | 11 31 |
| 23 | Th | 4 4 19 | 2 16 48 | 20 38 | 21 45 | 4 5 | 22 9 | 11 34 |
| 24 | F | 4 8 16 | 3 14 23 | 20 49 | 6 39 | 3 8 | 24 32 | 11 38 |
| 25 | S | 4 12 12 | 4 11 56 | 21 0 | 21 18 | 2 0 | 25 10 | 11 41 |
| 26 | S | 4 16 9 | 5 9 29 | 21 11 | 5 34 | 0 46 | 24 6 | 11 45 |
| 27 | M | 4 20 5 | 6 7 1 | 21 21 | 19 24 | 0 N 29 | 21 34 | 11 48 |
| 28 | Tu | 4 24 2 | 7 4 31 | 21 31 | 2 48 | 1 40 | 17 55 | 11 52 |
| 29 | W | 4 27 59 | 8 2 1 | 21 40 | 15 47 | 2 44 | 13 30 | 11 55 |
| 30 | Th | 4 31 55 | 8 59 30 | 21 49 | 28 23 | 3 38 | 8 38 | 11 59 |
| 31 | F | 4 35 52 | 9 56 58 | 21 58 | 10 41 | 4 21 | 3 33 | 12 3 |

MAY XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 3 | 24 N 0 | 0 S 56 | 13 N 25 | 28 30 | 5 N 40 | 17 W 2 |
| 4 | 1 3 | 24 10 | 0 50 | 14 40 | 2 16 | 7 49 | 16 52 |
| 7 | 1 4 | 24 18 | 0 44 | 15 52 | 1 56 | 9 59 | 16 48 |
| 10 | 1 4 | 24 25 | 0 38 | 17 0 | 1 32 | 12 16 | 16 33 |
| 13 | 1 5 | 24 29 | 0 31 | 18 4 | 1 5 | 14 35 | 16 24 |
| 16 | 1 5 | 24 32 | 0 24 | 19 4 | 0 36 | 16 51 | 16 14 |
| 19 | 1 6 | 24 33 | 0 17 | 19 59 | 0 4 | 19 1 | 16 5 |
| 22 | 1 6 | 24 33 | 0 10 | 20 50 | 0 N 34 | 20 59 | 15 55 |
| 25 | 1 7 | 24 30 | 0 3 | 21 35 | 0 58 | 22 39 | 15 46 |
| 28 | 1 7 | 24 26 | 0 N 4 | 22 15 | 1 24 | 23 53 | 15 36 |
| 31 | 1 7 | 24 21 | 0 11 | 22 50 | 1 44 | 24 52 | 15 27 |

[illegible]

JUNE XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S | 0 | 22 N | 15 | 0 N | 59 |
| 4 | 15 | 48 | 0 | 0 | 22 | 16 | 0 | 59 |
| 7 | 15 | 47 | 0 | 0 | 22 | 18 | 0 | 59 |
| 10 | 15 | 47 | 0 | 0 | 22 | 19 | 0 | 59 |
| 18 | 15 | 47 | 0 | 0 | 22 | 20 | 0 | 58 |
| 16 | 15 | 46 | 0 | 0 | 22 | 21 | 0 | 58 |
| 19 | 15 | 46 | 0 | 0 | 22 | 23 | 0 | 58 |
| 22 | 15 | 46 | 0 | 0 | 22 | 24 | 0 | 58 |
| 25 | 15 | 46 | 0 | 0 | 22 | 26 | 0 | 57 |
| 28 | 15 | 46 | 0 | 0 | 22 | 27 | 0 | 57 |

| D
M | D
W | Sidereal
Time. | | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|----|------------|-------------|------------|-----------|-------------|------------|
| | | H. | M. | S. | ° | ' | " | ° | ' |
| 1 | S | 4 | 39 | 48 | 10 | 54 | 26 | 22 N | 6 |
| 2 | S | 4 | 43 | 45 | 11 | 51 | 53 | 22 | 14 |
| 3 | M | 4 | 47 | 41 | 12 | 49 | 19 | 22 | 21 |
| 4 | Tu | 4 | 51 | 38 | 13 | 46 | 44 | 22 | 28 |
| 5 | W | 4 | 55 | 35 | 14 | 44 | 9 | 22 | 35 |
| 6 | Th | 4 | 59 | 31 | 15 | 41 | 34 | 22 | 41 |
| 7 | F | 5 | 3 | 27 | 16 | 38 | 57 | 22 | 47 |
| 8 | S | 5 | 7 | 24 | 17 | 36 | 20 | 22 | 53 |
| 9 | S | 5 | 11 | 21 | 18 | 33 | 42 | 22 | 58 |
| 10 | M | 5 | 15 | 17 | 19 | 31 | 3 | 23 | 3 |
| 11 | Tu | 5 | 19 | 14 | 20 | 28 | 23 | 23 | 7 |
| 12 | W | 5 | 23 | 10 | 21 | 25 | 43 | 23 | 11 |
| 13 | Th | 5 | 27 | 7 | 22 | 23 | 1 | 23 | 14 |
| 14 | F | 5 | 31 | 3 | 23 | 20 | 19 | 23 | 17 |
| 15 | S | 5 | 35 | 0 | 24 | 17 | 36 | 23 | 20 |
| 16 | S | 5 | 38 | 57 | 25 | 14 | 52 | 23 | 22 |
| 17 | M | 5 | 42 | 53 | 26 | 12 | 7 | 23 | 24 |
| 18 | Tu | 5 | 46 | 50 | 27 | 9 | 21 | 23 | 26 |
| 19 | W | 5 | 50 | 46 | 28 | 6 | 35 | 23 | 27 |
| 20 | Th | 5 | 54 | 43 | 29 | 3 | 48 | 23 | 27 |
| 21 | F | 5 | 58 | 39 | 0 | 55 | 1 | 23 | 27 |
| 22 | S | 6 | 2 | 36 | 0 | 58 | 13 | 23 | 27 |
| 23 | S | 6 | 6 | 32 | 1 | 55 | 25 | 23 | 27 |
| 24 | M | 6 | 10 | 29 | 2 | 52 | 37 | 23 | 26 |
| 25 | Tu | 6 | 14 | 26 | 3 | 49 | 48 | 23 | 24 |
| 26 | W | 6 | 18 | 22 | 4 | 47 | 0 | 23 | 22 |
| 27 | Th | 6 | 22 | 19 | 5 | 44 | 11 | 23 | 20 |
| 28 | F | 6 | 26 | 15 | 6 | 41 | 22 | 23 | 17 |
| 29 | S | 6 | 30 | 12 | 7 | 38 | 34 | 23 | 14 |
| 30 | S | 6 | 34 | 9 | 8 | 35 | 46 | 23 | 11 |



JULY XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|--------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ' | " | ° | ' | ° | ' | ° | ' | |
| 1 | 15 | 45 | 0 8 | 0 | 22 N 28 | 1 N 45 | 11 N 10 | 0 N 57 | 14 N 1 |
| 4 | 15 | 45 | 0 | 0 | 22 29 | 1 45 | 11 4 | 0 57 | 13 49 |
| 7 | 15 | 45 | 0 | 0 | 22 30 | 1 45 | 10 57 | 0 57 | 13 38 |
| 10 | 15 | 45 | 0 | 0 | 22 32 | 1 45 | 10 51 | 0 57 | 13 26 |
| 13 | 15 | 45 | 0 | 0 | 22 33 | 1 45 | 10 44 | 0 57 | 13 14 |
| 16 | 15 | 46 | 0 | 0 | 22 34 | 1 44 | 10 37 | 0 56 | 13 2 |
| 19 | 15 | 46 | 0 | 0 | 22 35 | 1 44 | 10 30 | 0 56 | 12 49 |
| 22 | 15 | 46 | 0 | 0 | 22 36 | 1 44 | 10 22 | 0 56 | 12 37 |
| 25 | 15 | 46 | 0 | 0 | 22 37 | 1 44 | 10 15 | 0 56 | 12 24 |
| 28 | 15 | 47 | 0 | 0 | 22 38 | 1 44 | 10 7 | 0 56 | 12 11 |
| 31 | 15 | 47 | 0 | 0 | 22 38 | 1 44 | 9 59 | 0 56 | 11 58 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ♂
Long. | ♂
Lat. | ♂
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|-----------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | M | 6 38 5 | 9 32 58 | 23 N 7 | 24 45 | 5 N 11 | 14 N 24 | 13 50 |
| 2 | Tu | 6 42 1 | 10 30 10 | 23 3 | 6 39 | 4 51 | 18 19 | 13 53 |
| 3 | W | 6 45 58 | 11 27 23 | 22 58 | 18 36 | 4 20 | 21 32 | 13 57 |
| 4 | Th | 6 49 55 | 12 24 35 | 22 53 | 0 41 | 3 36 | 23 49 | 14 0 |
| 5 | F | 6 53 51 | 13 21 48 | 22 47 | 12 57 | 2 42 | 25 2 | 14 3 |
| 6 | S | 6 57 48 | 14 19 22 | 22 41 | 25 26 | 1 39 | 25 1 | 14 6 |
| 7 | S | 7 1 44 | 15 16 15 | 22 35 | 8 10 | 0 30 | 23 42 | 14 9 |
| 8 | M | 7 5 41 | 16 13 29 | 22 28 | 21 10 | 0 S 42 | 21 6 | 14 13 |
| 9 | Tu | 7 9 37 | 17 10 43 | 22 21 | 4 26 | 1 53 | 17 20 | 14 16 |
| 10 | W | 7 13 34 | 18 7 57 | 22 14 | 17 56 | 2 59 | 12 37 | 14 19 |
| 11 | Th | 7 17 30 | 19 5 11 | 22 6 | 1 39 | 3 56 | 7 13 | 14 22 |
| 12 | F | 7 21 27 | 20 2 25 | 21 58 | 15 34 | 4 40 | 1 24 | 14 25 |
| 13 | S | 7 25 24 | 20 59 39 | 21 49 | 29 37 | 5 7 | 4 8 33 | 14 28 |
| 14 | S | 7 29 20 | 21 56 53 | 21 40 | 13 46 | 5 16 | 10 18 | 14 31 |
| 15 | M | 7 33 17 | 22 54 8 | 21 31 | 28 0 | 5 6 | 15 32 | 14 34 |
| 16 | Tu | 7 37 13 | 23 51 23 | 21 21 | 12 15 | 4 38 | 19 56 | 14 37 |
| 17 | W | 7 41 10 | 24 48 37 | 21 11 | 26 30 | 3 52 | 23 8 | 14 40 |
| 18 | Th | 7 45 6 | 25 45 52 | 21 0 | 10 40 | 2 52 | 24 54 | 14 43 |
| 19 | F | 7 49 3 | 26 43 7 | 20 50 | 24 44 | 1 42 | 25 3 | 14 45 |
| 20 | S | 7 52 59 | 27 40 23 | 20 39 | 8 37 | 0 27 | 23 38 | 14 48 |
| 21 | S | 7 56 56 | 28 37 39 | 20 27 | 22 19 | 0 N 48 | 20 49 | 14 51 |
| 22 | M | 8 0 53 | 29 34 55 | 20 15 | 5 44 | 2 0 | 16 55 | 14 54 |
| 23 | Tu | 8 4 49 | 0 32 12 | 20 3 | 18 54 | 3 3 | 12 16 | 14 57 |
| 24 | W | 8 8 46 | 1 29 30 | 19 51 | 1 46 | 3 55 | 7 11 | 15 0 |
| 25 | Th | 8 12 42 | 2 26 49 | 19 38 | 14 22 | 4 35 | 1 56 | 15 2 |
| 26 | F | 8 16 39 | 3 24 9 | 19 25 | 26 42 | 5 1 | 3 N 18 | 15 5 |
| 27 | S | 8 20 35 | 4 21 29 | 19 11 | 8 49 | 5 13 | 8 18 | 15 8 |
| 28 | S | 8 24 32 | 5 18 51 | 18 57 | 20 48 | 5 12 | 12 56 | 15 10 |
| 29 | M | 8 28 28 | 6 16 14 | 18 43 | 2 42 | 4 57 | 17 3 | 15 13 |
| 30 | Tu | 8 32 25 | 7 13 38 | 18 29 | 14 35 | 4 29 | 20 30 | 15 15 |
| 31 | W | 8 36 22 | 8 11 3 | 18 14 | 26 32 | 3 49 | 23 7 | 15 17 |

TUMS CHERRY MINT

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 11 | 21 N 45 | 1 N 15 | 22 N 40 | 0 S 56 | 18 N 24 | 13 W 48 |
| 4 | 1 11 | 21 22 | 1 18 | 22 3 | 1 38 | 17 22 | 13 39 |
| 7 | 1 11 | 20 57 | 1 22 | 21 21 | 2 24 | 16 27 | 13 29 |
| 10 | 1 11 | 20 30 | 1 25 | 20 34 | 3 2 | 15 43 | 13 20 |
| 13 | 1 11 | 20 3 | 1 28 | 19 41 | 3 49 | 15 13 | 13 10 |
| 16 | 1 11 | 19 34 | 1 30 | 18 43 | 4 20 | 14 58 | 13 0 |
| 19 | 1 11 | 19 4 | 1 31 | 17 41 | 4 47 | 15 0 | 12 51 |
| 22 | 1 10 | 18 33 | 1 32 | 16 35 | 4 53 | 15 17 | 12 41 |
| 25 | 1 10 | 18 1 | 1 33 | 15 24 | 4 52 | 15 47 | 12 32 |
| 28 | 1 10 | 17 27 | 1 31 | 14 10 | 4 38 | 16 27 | 12 22 |
| 31 | 1 10 | 16 53 | 1 31 | 13 52 | 3 58 | 17 10 | 12 13 |

| D
M | h | | μ | | δ | | ♀ | | ♂ | | Mutual
A | Lunar Aspects. | | | | | |
|--------|-------|----|-------|----|-------|----|-------|----|-------|----|-------------|----------------|---|---|---|---|---|
| | Long. | | Long. | | Long. | | Long. | | Long. | | | h | μ | δ | ♀ | ♂ | |
| | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | |
| 1 | 5 | 24 | 25 | 14 | 27 | 50 | 23 | 20 | 8 | 52 | | | | Δ | □ | □ | |
| 2 | 5 | 29 | 25 | 25 | 28 | 29 | 24 | 34 | 4 | 25 | ☾ | | Δ | | | | □ |
| 3 | 5 | 34 | 25 | 36 | 29 | 7 | 25 | 47 | 4 | 52 | | | | | | | |
| 4 | 5 | 39 | 25 | 47 | 29 | 45 | 27 | 1 | 5 | 16 | | | □ | □ | ■ | * | * |
| 5 | 5 | 45 | 25 | 58 | 0 | 23 | 28 | 14 | 5 | 35 | | | | | | | |
| 6 | 5 | 50 | 26 | 9 | 1 | 1 | 29 | 28 | 5 | 50 | | | | | | | |
| 7 | 5 | 56 | 26 | 21 | 1 | 39 | 0 | 41 | 6 | 1 | ☉ P ♄ | | | ■ | | | |
| 8 | 6 | 2 | 26 | 32 | 2 | 18 | 1 | 56 | 6 | 8 | | ♂ | | | | | |
| 9 | 6 | 8 | 26 | 44 | 2 | 56 | 3 | 8 | 6 | 7 | ♀ ♂ ♄ | | | | | | ♂ |
| 10 | 6 | 14 | 26 | 55 | 3 | 34 | 4 | 22 | 6 | 4 | | | * | | | | |
| 11 | 6 | 20 | 27 | 6 | 4 | 12 | 5 | 35 | 5 | 55 | ♀ ♂ ♄ | | | ♂ | ♂ | | |
| 12 | 6 | 26 | 27 | 18 | 4 | 50 | 6 | 49 | 5 | 42 | | | * | □ | | | |
| 13 | 6 | 32 | 27 | 29 | 5 | 28 | 8 | 2 | 5 | 24 | ♂ ♂ ♄ | | | | | ■ | * |
| 14 | 6 | 38 | 27 | 41 | 6 | 7 | 9 | 16 | 5 | 2 | ☉ ∠ h | | | Δ | | | * |
| 15 | 6 | 44 | 27 | 52 | 6 | 45 | 10 | 29 | 4 | 36 | | | □ | | | * | □ |
| 16 | 6 | 50 | 28 | 4 | 7 | 23 | 11 | 43 | 4 | 6 | | | | * | | □ | □ |
| 17 | 6 | 56 | 28 | 16 | 8 | 1 | 12 | 56 | 3 | 32 | | | Δ | | * | □ | Δ |
| 18 | 7 | 3 | 28 | 28 | 8 | 39 | 14 | 10 | 2 | 55 | ♀ * ♄ | | | ♂ | □ | Δ | Δ |
| 19 | 7 | 10 | 28 | 40 | 9 | 17 | 15 | 23 | 2 | 16 | | | | | Δ | | |
| 20 | 7 | 17 | 28 | 52 | 9 | 55 | 16 | 37 | 1 | 35 | | | | Δ | | | |
| 21 | 7 | 23 | 29 | 4 | 10 | 33 | 17 | 50 | 0 | 53 | | | | | | | |
| 22 | 7 | 30 | 29 | 16 | 11 | 12 | 19 | 3 | 0 | 11 | ☉ ♂ ♄ | | | | | | ♂ |
| 23 | 7 | 37 | 29 | 20 | 11 | 50 | 20 | 16 | 29 | 30 | | | | | | | ♀ |
| 24 | 7 | 43 | 29 | 40 | 12 | 28 | 21 | 30 | 28 | 49 | | | | | | | |
| 25 | 7 | 49 | 29 | 53 | 13 | 6 | 22 | 43 | 28 | 9 | | | | | | | |
| 26 | 7 | 56 | 0 | 5 | 13 | 44 | 23 | 57 | 27 | 23 | | | | | | | Δ |
| 27 | 8 | 3 | 0 | 17 | 14 | 22 | 25 | 10 | 26 | 58 | | | | | | | |
| 28 | 8 | 10 | 0 | 29 | 15 | 0 | 26 | 23 | 26 | 29 | ♄ * ♄ | | | | | | □ |
| 29 | 8 | 16 | 0 | 41 | 15 | 38 | 27 | 36 | 26 | 4 | | | | | | Δ | |
| 30 | 8 | 23 | 0 | 54 | 16 | 16 | 28 | 50 | 25 | 41 | ♂ P ♄ | | | | | | |
| 31 | 8 | 29 | 1 | 6 | 16 | 54 | 0 | 3 | 25 | 29 | | | | | | | * |

AUGUST XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 48 | 0 S 0 | 22 N 39 | 1 N 43 | 9 N 57 | 0 N 56 | 11 N 53 |
| 4 | 15 | 48 | 0 0 | 22 39 | 1 43 | 9 49 | 0 56 | 11 40 |
| 7 | 15 | 49 | 0 0 | 22 40 | 1 43 | 9 41 | 0 56 | 11 25 |
| 10 | 15 | 49 | 0 0 | 22 41 | 1 43 | 9 34 | 0 56 | 11 12 |
| 13 | 15 | 50 | 0 0 | 22 42 | 1 43 | 9 25 | 0 56 | 10 54 |
| 16 | 15 | 50 | 0 0 | 22 42 | 1 43 | 9 16 | 0 56 | 10 44 |
| 19 | 15 | 51 | 0 0 | 22 43 | 1 43 | 9 8 | 0 56 | 10 30 |
| 22 | 15 | 51 | 0 0 | 22 43 | 1 43 | 8 59 | 0 56 | 10 15 |
| 25 | 15 | 52 | 0 N 1 | 22 44 | 1 43 | 8 51 | 0 56 | 10 2 |
| 28 | 15 | 53 | 0 1 | 22 44 | 1 43 | 8 42 | 0 56 | 9 47 |
| 31 | 15 | 53 | 0 1 | 22 45 | 1 43 | 8 34 | 0 56 | 9 33 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin. | ♄
Long. | ♄
Lat. | ♄
Declin. | ♃
Long. |
|--------|--------|-------------------|------------|--------------|------------|-----------|--------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | Th | 8 40 18 | 9 Ω 8 29 | 17 N 59 | 8 ♀ 39 | 2 N 59 | 24 N 43 | 15 ♀ 19 |
| 2 | F | 8 44 15 | 10 5 57 | 17 44 | 20 59 | 2 0 25 | 9 15 29 | 15 29 |
| 3 | S | 8 48 11 | 11 3 25 | 17 28 | 3 ♄ 35 | 0 53 24 | 18 15 24 | 15 24 |
| 4 | S | 8 52 8 | 12 0 55 | 17 12 | 16 32 | 0 8 17 | 22 9 15 | 15 26 |
| 5 | M | 8 56 4 | 12 58 26 | 16 56 | 29 49 | 1 29 18 | 45 15 29 | 15 29 |
| 6 | Tu | 9 0 1 | 13 55 58 | 16 40 | 13 Ω 27 | 2 37 14 | 17 15 31 | 15 31 |
| 7 | W | 9 3 58 | 14 53 31 | 16 23 | 27 24 | 3 37 8 | 59 15 33 | 15 33 |
| 8 | Th | 9 7 54 | 15 51 6 | 16 6 | 11 ♀ 35 | 4 25 3 | 8 15 35 | 15 35 |
| 9 | F | 9 11 51 | 16 48 41 | 15 49 | 25 55 | 4 57 28 | 56 15 37 | 15 37 |
| 10 | S | 9 15 47 | 17 46 17 | 15 31 | 10 ♄ 21 | 5 11 8 | 51 15 39 | 15 39 |
| 11 | S | 9 19 44 | 18 43 51 | 15 13 | 34 45 | 5 4 14 | 19 15 41 | 15 41 |
| 12 | M | 9 23 40 | 19 41 32 | 14 55 | 9 ♀ 4 | 4 40 18 | 56 15 43 | 15 43 |
| 13 | Tu | 9 27 37 | 20 39 11 | 14 37 | 23 15 | 3 58 22 | 26 15 45 | 15 45 |
| 14 | W | 9 31 33 | 21 36 51 | 14 19 | 7 ♄ 17 | 3 2 24 | 32 15 47 | 15 47 |
| 15 | Th | 9 35 30 | 22 34 32 | 14 0 | 21 7 | 1 56 25 | 5 15 49 | 15 49 |
| 16 | F | 9 39 26 | 23 32 14 | 13 41 | 4 ♀ 47 | 0 4 24 | 7 15 51 | 15 51 |
| 17 | S | 9 43 23 | 24 29 57 | 13 22 | 18 15 | 0 N 28 | 31 45 15 | 15 53 |
| 18 | S | 9 47 20 | 25 27 42 | 13 8 | 1 ♀ 31 | 1 39 18 | 14 15 55 | 15 55 |
| 19 | M | 9 51 16 | 26 25 27 | 12 43 | 14 36 | 2 42 13 | 53 15 55 | 15 55 |
| 20 | Tu | 9 55 13 | 27 23 14 | 12 23 | 27 28 | 3 37 8 | 58 15 55 | 15 55 |
| 21 | W | 9 59 9 | 28 21 2 | 12 3 | 10 ♀ 7 | 4 19 3 | 47 16 0 | 16 0 |
| 22 | Th | 10 3 6 | 29 18 52 | 11 43 | 22 34 | 4 49 1 | N 26 16 1 | 16 1 |
| 23 | F | 10 7 2 | 0 ♀ 16 44 | 11 23 | 4 ♀ 48 | 5 4 6 | 34 16 3 | 16 3 |
| 24 | S | 10 10 59 | 1 14 37 | 11 2 | 16 53 | 5 6 11 | 20 16 4 | 16 4 |
| 25 | S | 10 14 55 | 2 12 32 | 10 42 | 28 49 | 4 54 15 | 38 16 5 | 16 5 |
| 26 | M | 10 18 52 | 3 10 28 | 10 21 | 10 ♀ 41 | 4 30 19 | 16 16 7 | 16 7 |
| 27 | Tu | 10 22 49 | 4 8 26 | 10 0 | 22 33 | 3 54 22 | 11 16 8 | 16 8 |
| 28 | W | 10 26 45 | 5 6 27 | 9 39 | 4 ♀ 28 | 3 8 24 | 8 16 9 | 16 9 |
| 29 | Th | 10 30 42 | 6 4 29 | 9 17 | 16 33 | 2 13 24 | 59 16 11 | 16 11 |
| 30 | F | 10 34 38 | 7 2 33 | 8 56 | 28 52 | 1 10 24 | 37 16 12 | 16 12 |
| 31 | S | 10 38 35 | 8 0 39 | 8 34 | 11 ♄ 30 | 0 3 23 | 1 16 13 | 16 13 |

AUGUST XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | 1 N10 | 16 N41 | 1 N30 | 12 N26 | 8 S 40 | 17 N25 | 12w10 |
| 4 | 1 9 | 16 6 | 1 28 | 11 4 | 8 6 | 18 7 | 12 0 |
| 7 | 1 9 | 15 29 | 1 26 | 9 40 | 2 10 | 18 42 | 11 51 |
| 10 | 1 9 | 14 51 | 1 23 | 8 14 | 1 14 | 19 4 | 11 41 |
| 13 | 1 9 | 14 18 | 1 19 | 6 46 | 0 32 | 19 10 | 11 32 |
| 16 | 1 8 | 13 34 | 1 14 | 5 16 | 0 N 8 | 18 54 | 11 22 |
| 19 | 1 8 | 12 54 | 1 9 | 3 45 | 0 45 | 18 13 | 11 13 |
| 22 | 1 8 | 12 13 | 1 3 | 2 13 | 1 12 | 17 8 | 11 8 |
| 25 | 1 8 | 11 32 | 0 57 | 0 40 | 1 32 | 15 39 | 10 53 |
| 28 | 1 7 | 10 49 | 0 50 | 0 S 53 | 1 40 | 13 51 | 10 44 |
| 31 | 1 7 | 10 7 | 0 43 | 2 27 | 1 46 | 11 49 | 10 34 |

| D
M | ♄ | ♊ | ♈ | ♋ | ♌ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♊ | ♋ | ♌ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 8w36 | 1w19 | 17Ω32 | 1w17 | 25Ω22 | ♀♂♊ | * | | ☐ | | | |
| 2 | 8 43 | 1 31 | 18 10 | 2 30 | 25 R19 | ♀P☉ | | ♂ | | | * | |
| 3 | 8 50 | 1 44 | 18 49 | 3 40 | 25 D23 | ♀P♊ | | | * | * | | * |
| 4 | 8 57 | 1 56 | 19 27 | 4 56 | 25 34 | | | | | | | |
| 5 | 9 4 | 2 9 | 20 5 | 6 9 | 25 51 | | | | | | | ♂ |
| 6 | 9 11 | 2 22 | 20 43 | 7 23 | 26 15 | | ♂ | * | | | | |
| 7 | 9 18 | 2 35 | 21 21 | 8 36 | 26 46 | ♀P☉ | | | | ♂ | ♂ | |
| 8 | 9 25 | 2 47 | 22 0 | 9 49 | 27 23 | ☉*♈ | | ☐ | ♂ | | | ♂ |
| 9 | 9 32 | 3 0 | 22 38 | 11 2 | 28 7 | | | | | | | * |
| 10 | 9 39 | 3 13 | 23 16 | 12 15 | 28 58 | | | Δ | | | | |
| 11 | 9 46 | 3 26 | 23 54 | 13 29 | 29 55 | | * | | | | * | ☐ |
| 12 | 9 53 | 3 39 | 24 32 | 14 42 | 0Ω59 | ♀♂♈ | | | | * | * | * |
| 13 | 10 1 | 3 52 | 25 10 | 15 55 | 2 8 | ♀☐♈ | ☐ | | | | ☐ | |
| 14 | 10 8 | 4 5 | 25 48 | 17 8 | 3 23 | | | | ☐ | ☐ | | Δ |
| 15 | 10 15 | 4 18 | 26 26 | 18 21 | 4 44 | | Δ | ♂ | | | Δ | ☐ |
| 16 | 10 23 | 4 31 | 27 4 | 19 34 | 6 10 | | | | Δ | Δ | | |
| 17 | 10 30 | 4 43 | 27 43 | 20 47 | 7 42 | ☉P♂ | | | | | | Δ |
| 18 | 10 39 | 4 56 | 28 21 | 22 0 | 9 17 | | | | | | | |
| 19 | 10 45 | 5 9 | 28 59 | 23 13 | 10 57 | | | Δ | | | | ♂ |
| 20 | 10 52 | 5 22 | 29 36 | 24 26 | 12 40 | | ♂ | | | | ♂ | |
| 21 | 11 0 | 5 35 | 0w15 | 25 39 | 14 27 | | | ☐ | ♂ | ♂ | | |
| 22 | 11 7 | 5 48 | 0 53 | 26 52 | 16 16 | ♀*♈ | | | | | | ♂ |
| 23 | 11 15 | 6 1 | 1 31 | 28 5 | 18 8 | | | | | | | |
| 24 | 11 22 | 6 14 | 2 10 | 29 18 | 20 2 | | | * | | | | Δ |
| 25 | 11 30 | 6 27 | 2 48 | 0Δ32 | 21 58 | | Δ | | | | Δ | |
| 26 | 11 37 | 6 40 | 3 26 | 1 41 | 23 54 | ☉P♊ | | | | Δ | Δ | |
| 27 | 11 45 | 6 53 | 4 4 | 2 57 | 25 51 | ☉♂♂ | | | | | | ☐ |
| 28 | 11 52 | 7 6 | 4 42 | 4 10 | 27 49 | | ☐ | | | | ☐ | Δ |
| 29 | 12 0 | 7 19 | 5 21 | 5 23 | 29 47 | | | ♂ | ☐ | | | |
| 30 | 12 7 | 7 32 | 5 59 | 6 35 | 1w45 | | | | | | | * |
| 31 | 12 15 | 7 45 | 6 37 | 7 48 | 3 43 | ☉♂♊ | * | | * | * | * | ☐ |

SEPTEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 15 | 53 | 0 N 1 | 22 N 45 | 1 N 43 | 8 N 31 | 0 N 57 | 9 N 28 |
| 4 | 15 | 54 | 0 1 | 22 45 | 1 44 | 8 23 | 0 57 | 9 1 |
| 7 | 15 | 54 | 0 1 | 22 45 | 1 44 | 8 14 | 0 57 | 8 5 |
| 10 | 15 | 55 | 0 1 | 22 46 | 1 44 | 8 5 | 0 57 | 8 4 |
| 13 | 15 | 56 | 0 1 | 22 46 | 1 44 | 7 57 | 0 57 | 8 |
| 16 | 15 | 56 | 0 1 | 22 46 | 1 45 | 7 48 | 0 58 | 8 |
| 19 | 15 | 57 | 0 1 | 22 46 | 1 45 | 7 40 | 0 58 | 8 |
| 22 | 15 | 58 | 0 1 | 22 46 | 1 45 | 7 32 | 0 58 | 7 4 |
| 25 | 15 | 59 | 0 1 | 22 46 | 1 45 | 7 23 | 0 58 | 7 1 |
| 28 | 16 | 0 | 0 1 | 22 46 | 1 46 | 7 15 | 0 59 | 7 1 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ☽
Long. | ☽
Lat. | ☽
Declin. | ♂
Long. |
|--------|--------|-------------------|----|----|-------------------|--------------|------------|--------------------|--------------|------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ° |
| 1 | S | 10 | 42 | 31 | 8 ^m 58 | 47 | 8 N 13 | 24 ⁵ 31 | 1 S 6 | 20 N 9 16 |
| 2 | M | 10 | 46 | 28 | 9 56 | 57 | 7 51 | 7 ⁵² 58 | 2 14 | 16 8 16 |
| 3 | Tu | 10 | 50 | 24 | 10 55 | 9 | 7 29 | 21 51 | 3 16 | 11 9 16 |
| 4 | W | 10 | 54 | 21 | 11 53 | 22 | 7 6 | 6 ^m 8 | 4 7 | 5 26 16 |
| 5 | Th | 10 | 58 | 18 | 12 51 | 38 | 6 44 | 20 44 | 4 44 | 0 S 40 16 |
| 6 | F | 11 | 2 | 14 | 13 49 | 55 | 6 22 | 5 ² 32 | 5 2 | 6 49 16 |
| 7 | S | 11 | 6 | 11 | 14 48 | 14 | 5 59 | 20 23 | 5 0 | 12 35 16 |
| 8 | S | 11 | 10 | 7 | 15 46 | 34 | 5 37 | 5 ^m 9 | 4 38 | 17 36 16 |
| 9 | M | 11 | 14 | 4 | 16 44 | 56 | 5 14 | 19 43 | 3 58 | 21 30 16 |
| 10 | Tu | 11 | 18 | 0 | 17 43 | 20 | 4 51 | 4 [†] 1 | 3 4 | 23 58 16 |
| 11 | W | 11 | 21 | 57 | 18 41 | 45 | 4 29 | 18 1 | 1 59 | 24 54 16 |
| 12 | Th | 11 | 25 | 53 | 19 40 | 11 | 4 6 | 1 ^w 43 | 0 50 | 24 16 16 |
| 13 | F | 11 | 29 | 50 | 20 38 | 40 | 3 43 | 15 7 | 0 N 21 | 22 15 16 |
| 14 | S | 11 | 33 | 47 | 21 37 | 10 | 3 20 | 28 17 | 1 30 | 19 3 16 |
| 15 | S | 11 | 37 | 43 | 22 35 | 41 | 2 56 | 11 ^m 13 | 2 32 | 14 59 16 |
| 16 | M | 11 | 41 | 40 | 23 34 | 14 | 2 33 | 23 57 | 3 26 | 10 18 16 |
| 17 | Tu | 11 | 45 | 36 | 24 32 | 50 | 2 10 | 6 ^x 81 | 4 9 | 5 16 16 |
| 18 | W | 11 | 49 | 33 | 25 31 | 26 | 1 47 | 18 55 | 4 39 | 0 6 16 |
| 19 | Th | 11 | 53 | 29 | 26 30 | 5 | 1 24 | 1 ^r 10 | 4 56 | 5 N 0 16 |
| 20 | F | 11 | 57 | 26 | 27 28 | 46 | 1 0 | 13 17 | 5 0 | 9 51 16 |
| 21 | S | 12 | 1 | 22 | 28 27 | 29 | 0 37 | 25 16 | 4 50 | 14 16 16 |
| 22 | S | 12 | 5 | 19 | 29 26 | 13 | 0 13 | 7 ^x 9 | 4 27 | 18 7 16 |
| 23 | M | 12 | 9 | 16 | 0 ^Δ 25 | 0 | 0 S 10 | 18 59 | 3 53 | 21 13 16 |
| 24 | Tu | 12 | 13 | 12 | 1 23 | 50 | 0 33 | 0 [□] 49 | 3 9 | 23 25 16 |
| 25 | W | 12 | 17 | 9 | 2 22 | 41 | 0 57 | 12 42 | 2 16 | 24 35 16 |
| 26 | Th | 12 | 21 | 5 | 3 21 | 35 | 1 20 | 24 44 | 1 17 | 24 38 16 |
| 27 | F | 12 | 25 | 2 | 4 20 | 31 | 1 44 | 7 ⁵ 0 | 0 13 | 23 29 16 |
| 28 | S | 12 | 28 | 58 | 5 19 | 29 | 2 7 | 19 34 | 0 S 54 | 21 9 16 |
| 29 | S | 12 | 32 | 55 | 6 18 | 30 | 2 30 | 2 ^Ω 33 | 1 59 | 17 40 16 |
| 30 | M | 12 | 36 | 51 | 7 17 | 33 | 2 54 | 15 59 | 3 0 | 13 11 16 |

SEPTEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 1 N 6 | 9 N 52 | 0 N 40 | 2 S 58 | 1 N 46 | 11 N 5 | 10 W 31 |
| 4 | 1 6 | 9 9 | 0 32 | 4 30 | 1 42 | 8 51 | 10 22 |
| 7 | 1 6 | 8 25 | 0 24 | 6 2 | 1 33 | 6 31 | 10 12 |
| 10 | 1 5 | 7 41 | 0 15 | 7 33 | 1 20 | 4 9 | 10 3 |
| 13 | 1 5 | 6 56 | 0 6 | 9 3 | 1 4 | 1 47 | 9 53 |
| 16 | 1 4 | 6 11 | 0 S 3 | 10 31 | 0 46 | 0 S 33 | 9 44 |
| 19 | 1 4 | 5 25 | 0 13 | 11 57 | 0 26 | 2 51 | 9 34 |
| 22 | 1 3 | 4 39 | 0 23 | 13 20 | 0 8 | 4 5 | 9 25 |
| 25 | 1 2 | 3 53 | 0 33 | 14 41 | 0 S 16 | 7 14 | 9 15 |
| 28 | 1 1 | 3 7 | 0 43 | 15 59 | 0 38 | 9 19 | 9 6 |

| D
M | h | ♈ | ♉ | ♊ | ♋ | ♌ | Mutual
Aspts. | Lunar
☉ ☽ ☿ |
|--------|-------|-------|-------|-------|-------|-------|------------------|----------------|
| 1 | 12 23 | 7 58 | 7 14 | 9 1 | 5 40 | | | |
| 2 | 12 30 | 8 11 | 7 54 | 10 14 | 7 37 | ☿ ☽ ☿ | | |
| 3 | 12 38 | 8 21 | 8 32 | 11 26 | 9 33 | ☿ ☽ ☿ | * | |
| 4 | 12 45 | 8 37 | 9 10 | 12 39 | 11 28 | ☉ ☽ ☿ | ☿ | c |
| 5 | 12 52 | 8 50 | 9 48 | 13 52 | 13 22 | ☉ ☽ ☿ | | |
| 6 | 13 0 | 9 3 | 10 27 | 15 4 | 15 15 | | | |
| 7 | 13 8 | 9 16 | 11 5 | 16 17 | 17 8 | ☿ ☽ ☿ | | Δ |
| 8 | 13 15 | 9 29 | 11 44 | 17 30 | 18 59 | | | |
| 9 | 13 23 | 9 42 | 12 22 | 18 42 | 20 49 | ☉ ☽ ☿ | * | → |
| 10 | 13 30 | 9 55 | 13 0 | 19 55 | 22 38 | | | |
| 11 | 13 38 | 10 5 | 13 38 | 21 7 | 24 26 | ☿ ☽ ☿ | ☿ | c |
| 12 | 13 45 | 10 21 | 14 16 | 22 20 | 26 13 | | | |
| 13 | 13 53 | 10 34 | 14 55 | 23 32 | 27 58 | | Δ | Δ |
| 14 | 14 0 | 10 47 | 15 34 | 24 44 | 29 48 | | | |
| 15 | 14 8 | 11 0 | 16 12 | 25 56 | 1 27 | ☿ ☽ ☿ | | Δ |
| 16 | 14 15 | 11 13 | 16 51 | 27 9 | 3 9 | | | |
| 17 | 14 23 | 11 20 | 17 29 | 28 21 | 4 50 | | | |
| 18 | 14 30 | 11 39 | 18 7 | 29 33 | 6 31 | ☿ ☽ ☿ | ☿ | ☿ |
| 19 | 14 38 | 11 51 | 18 45 | 0 45 | 8 10 | ☿ ☽ ☿ | ☿ | |
| 20 | 14 45 | 12 4 | 19 24 | 1 57 | 9 49 | ☿ ☽ ☿ | * | |
| 21 | 14 53 | 12 17 | 20 2 | 3 10 | 11 26 | | | |
| 22 | 15 0 | 12 30 | 20 41 | 4 22 | 13 9 | | | |
| 23 | 15 8 | 12 42 | 21 19 | 5 34 | 14 38 | | | Δ |
| 24 | 15 15 | 12 56 | 21 58 | 6 46 | 16 13 | ☿ ☽ ☿ | Δ | |
| 25 | 15 22 | 13 8 | 22 36 | 7 58 | 17 46 | ☿ ☽ ☿ | ☿ | c |
| 26 | 15 30 | 13 21 | 23 15 | 9 10 | 19 19 | | | |
| 27 | 15 37 | 13 34 | 23 53 | 10 22 | 20 52 | | ☿ | |
| 28 | 15 44 | 13 46 | 24 32 | 11 34 | 22 28 | | | * |
| 29 | 15 52 | 13 59 | 25 10 | 12 46 | 23 53 | | * | |
| 30 | 15 59 | 14 11 | 25 49 | 13 58 | 25 22 | ☿ ☽ ☿ | * | * |



OCTOBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° / | ° / | ° / | ° / | ° / | ° / | ° / |
| 1 | 1 N 0 | 2 N 20 | 0 S 53 | 17 S 14 | 1 S 1 | 11 S 18 | 8 w 56 |
| 4 | 0 59 | 1 38 | 1 3 | 18 25 | 1 24 | 18 10 | 8 46 |
| 7 | 0 58 | 0 46 | 1 13 | 19 32 | 1 44 | 14 56 | 8 37 |
| 10 | 0 58 | 0 S 0 | 1 23 | 20 35 | 2 5 | 16 34 | 8 27 |
| 13 | 0 57 | 0 47 | 1 32 | 21 33 | 2 21 | 18 3 | 8 18 |
| 16 | 0 57 | 1 34 | 1 41 | 22 26 | 2 36 | 19 22 | 8 8 |
| 19 | 0 56 | 2 21 | 1 50 | 23 14 | 2 48 | 20 31 | 7 58 |
| 22 | 0 56 | 3 8 | 1 59 | 23 56 | 2 56 | 21 27 | 7 49 |
| 25 | 0 55 | 3 54 | 2 7 | 24 33 | 3 0 | 22 7 | 7 39 |
| 28 | 0 54 | 4 40 | 2 16 | 25 3 | 2 57 | 22 30 | 7 30 |
| 31 | 0 52 | 5 27 | 2 24 | 25 28 | 2 44 | 22 31 | 7 20 |

| D
M | h | ♄ | ♂ | ♀ | ♂ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|--------|---------|---------|---------|---------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ♄ | h | ♄ | ♂ | ♀ |
| | ° / | ° / | ° / | ° / | ° / | | | | | | | |
| 1 | 16 m 6 | 14 m 23 | 26 m 27 | 15 m 10 | 26 Δ 50 | | | | | | | * |
| 2 | 16 14 | 14 36 | 27 6 | 16 22 | 28 17 | ♀ * h | | □ | ♂ | ♂ | | * |
| 3 | 16 21 | 14 48 | 27 44 | 17 34 | 29 44 | h □ ♄ | | | | | ♂ | |
| 4 | 16 28 | 15 0 | 28 23 | 18 46 | 1 m 9 | ♀ □ ♄ | ♂ | Δ | | | | ♂ |
| 5 | 16 35 | 15 13 | 29 1 | 19 57 | 2 35 | | | | | | | ♂ |
| 6 | 16 42 | 15 25 | 29 40 | 21 9 | 3 59 | | | | * | * | | ♂ |
| 7 | 16 49 | 15 37 | 0 Δ 19 | 22 20 | 5 22 | | | | | | * | |
| 8 | 16 56 | 15 49 | 0 58 | 23 32 | 6 43 | | * | ♂ | □ | □ | | |
| 9 | 17 3 | 16 1 | 1 36 | 24 48 | 8 4 | ☉ Δ ♄ | | | | | □ | |
| 10 | 17 10 | 16 13 | 2 15 | 25 55 | 9 24 | ♄ □ ♄ | □ | | Δ | Δ | | * |
| 11 | 17 17 | 16 25 | 2 53 | 27 6 | 10 42 | | | | | | | * |
| 12 | 17 23 | 16 37 | 3 32 | 28 18 | 11 59 | | | | | | Δ | □ |
| 13 | 17 30 | 16 49 | 4 10 | 29 29 | 13 15 | | Δ | Δ | | | | |
| 14 | 17 36 | 17 1 | 4 49 | 0 ♄ 40 | 14 29 | | | | | | | □ |
| 15 | 17 43 | 17 13 | 5 28 | 1 51 | 15 42 | | | □ | ♂ | ♂ | | Δ |
| 16 | 17 49 | 17 24 | 6 7 | 3 2 | 16 53 | ♂ * ♄ | | | | | | Δ |
| 17 | 17 56 | 17 36 | 6 46 | 4 13 | 18 2 | ♂ * h | | | | | ♂ | |
| 18 | 18 2 | 17 48 | 7 25 | 5 24 | 19 9 | | ♂ | * | | | | |
| 19 | 18 9 | 17 59 | 8 4 | 6 35 | 20 14 | | | | | | | |
| 20 | 18 15 | 18 11 | 8 43 | 7 46 | 21 17 | | | | Δ | Δ | | |
| 21 | 18 22 | 18 22 | 9 22 | 8 57 | 22 17 | ♄ ♂ h | | | | | | ♂ |
| 22 | 18 28 | 18 33 | 10 0 | 10 8 | 23 14 | ♀ * ♂ | | | | | Δ | ♂ |
| 23 | 18 35 | 18 44 | 10 39 | 11 19 | 24 8 | | | ♂ | □ | □ | | |
| 24 | 18 41 | 18 55 | 11 18 | 12 30 | 24 58 | ☉ □ ♄ | Δ | | | | | |
| 25 | 18 47 | 19 6 | 11 57 | 13 40 | 25 44 | | | | * | * | □ | |
| 26 | 18 53 | 19 18 | 12 36 | 14 51 | 26 26 | | □ | | | | | Δ |
| 27 | 18 58 | 19 29 | 13 15 | 16 1 | 27 3 | ♀ ♂ ♄ | | * | | | * | Δ |
| 28 | 19 5 | 19 40 | 13 54 | 17 11 | 27 35 | ☉ ∠ h | | | | | | □ |
| 29 | 19 12 | 19 51 | 14 33 | 18 21 | 28 1 | | * | | | | | |
| 30 | 19 17 | 20 1 | 15 12 | 19 32 | 28 19 | ♀ □ h | | □ | ♂ | ♂ | | * |
| 31 | 19 23 | 20 11 | 15 51 | 20 42 | 28 32 | ♂ Δ ♄ | | | | | | |

NOVEMBER XXX DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 9 | 0 N 1 | 22 N 42 | 1 N 51 | 5 N 52 | 1 N 3 | 4 N 47 |
| 4 | 16 | 9 | 0 1 | 22 42 | 1 51 | 5 46 | 1 4 | 4 35 |
| 7 | 16 | 10 | 0 1 | 22 41 | 1 52 | 5 40 | 1 4 | 4 24 |
| 10 | 16 | 11 | 0 1 | 22 40 | 1 52 | 5 34 | 1 5 | 4 13 |
| 13 | 16 | 12 | 0 1 | 22 40 | 1 53 | 5 29 | 1 5 | 4 2 |
| 16 | 16 | 12 | 0 1 | 22 39 | 1 53 | 5 24 | 1 6 | 3 52 |
| 19 | 16 | 13 | 0 1 | 22 38 | 1 54 | 5 19 | 1 6 | 3 42 |
| 22 | 16 | 13 | 0 2 | 22 37 | 1 55 | 5 15 | 1 7 | 3 32 |
| 25 | 16 | 14 | 0 2 | 22 37 | 1 56 | 5 11 | 1 7 | 3 23 |
| 28 | 16 | 14 | 0 2 | 22 36 | 1 57 | 5 7 | 1 8 | 3 15 |

| D
M | D
W | Sidereal
Time. | | | ☉
Long. | ☉
Declin. | ♃
Long. | ♃
Lat. | ♃
Declin. | ♃
Long. |
|--------|--------|-------------------|----|----|----------------------|--------------|--------------------|-----------|--------------|--------------------|
| | | H. | M. | S. | ° | ' | ° | ' | ° | ' |
| 1 | F | 14 | 43 | 1 | 9 ^m 4 35 | 14 S 32 | 22 ^h 22 | 4 S 53 | 13 S 14 | 15 ^h 44 |
| 2 | S | 14 | 46 | 58 | 10 4 44 | 14 51 | 7 ^m 39 | 4 20 | 18 10 | 15 ^h 42 |
| 3 | S | 14 | 50 | 54 | 11 4 55 | 15 10 | 22 58 | 3 28 | 21 53 | 15 40 |
| 4 | M | 14 | 54 | 51 | 12 5 8 | 15 28 | 8 ^h 6 | 2 22 | 24 0 | 15 38 |
| 5 | Tu | 14 | 58 | 47 | 13 5 23 | 15 47 | 22 54 | 1 7 | 24 23 | 15 36 |
| 6 | W | 15 | 2 | 44 | 14 5 39 | 16 5 | 7 ^h 17 | 0 N 9 | 23 6 | 15 34 |
| 7 | Th | 15 | 6 | 40 | 15 5 56 | 16 23 | 21 12 | 1 23 | 20 25 | 15 32 |
| 8 | F | 15 | 10 | 37 | 16 6 16 | 16 40 | 4 ^m 41 | 2 30 | 16 40 | 15 30 |
| 9 | S | 15 | 14 | 34 | 17 6 36 | 16 57 | 17 44 | 3 27 | 12 14 | 15 28 |
| 10 | S | 15 | 18 | 30 | 18 6 58 | 17 14 | 0 ^h 27 | 4 13 | 7 23 | 15 26 |
| 11 | M | 15 | 22 | 27 | 19 7 22 | 17 31 | 12 52 | 4 45 | 2 21 | 15 24 |
| 12 | Tu | 15 | 26 | 23 | 20 7 47 | 17 47 | 25 5 | 5 3 | 2 N 41 | 15 21 |
| 13 | W | 15 | 30 | 20 | 21 8 13 | 18 3 | 7 ^h 8 | 5 8 | 7 33 | 15 19 |
| 14 | Th | 15 | 34 | 16 | 22 8 40 | 18 19 | 19 5 | 4 59 | 12 5 | 15 17 |
| 15 | F | 15 | 38 | 13 | 23 9 9 | 18 35 | 0 ^h 58 | 4 38 | 16 9 | 15 15 |
| 16 | S | 15 | 42 | 9 | 24 9 40 | 18 50 | 12 49 | 4 4 | 19 34 | 15 12 |
| 17 | S | 15 | 46 | 6 | 25 10 12 | 19 4 | 24 40 | 3 20 | 22 11 | 15 10 |
| 18 | M | 15 | 50 | 3 | 26 10 45 | 19 19 | 6 ^h 33 | 2 27 | 23 50 | 15 8 |
| 19 | Tu | 15 | 53 | 59 | 27 11 20 | 19 33 | 18 29 | 1 27 | 24 24 | 15 5 |
| 20 | W | 15 | 57 | 56 | 28 11 56 | 19 46 | 0 ^h 31 | 0 22 | 23 50 | 15 3 |
| 21 | Th | 16 | 1 | 52 | 29 12 34 | 20 0 | 12 41 | 0 8 | 43 22 | 15 0 |
| 22 | F | 16 | 5 | 49 | 0 ^h 13 14 | 20 13 | 25 1 | 1 49 | 19 21 | 14 58 |
| 23 | S | 16 | 9 | 45 | 1 13 55 | 20 25 | 7 ^h 36 | 2 51 | 15 38 | 14 55 |
| 24 | S | 16 | 13 | 42 | 2 14 38 | 20 38 | 20 29 | 3 45 | 11 7 | 14 53 |
| 25 | M | 16 | 17 | 38 | 3 15 23 | 20 49 | 3 ^m 43 | 4 29 | 5 58 | 14 50 |
| 26 | Tu | 16 | 21 | 35 | 4 16 9 | 21 1 | 17 21 | 4 59 | 0 54 | 14 48 |
| 27 | W | 16 | 25 | 32 | 5 16 57 | 21 12 | 1 ^h 25 | 5 13 | 5 8 | 21 14 45 |
| 28 | Th | 16 | 29 | 28 | 6 17 46 | 21 23 | 15 53 | 5 7 | 10 59 | 14 43 |
| 29 | F | 16 | 33 | 25 | 7 18 36 | 21 33 | 0 ^m 43 | 4 42 | 16 7 | 14 40 |
| 30 | S | 16 | 37 | 21 | 8 19 28 | 21 43 | 15 47 | 3 56 | 20 20 | 14 38 |

NOVEMBER XXX DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 1 | 0 N 52 | 5 S 42 | 2 S 26 | 25 S 35 | 2 S 38 | 22 S 25 | 7 w 17 |
| 4 | 0 51 | 6 28 | 2 31 | 25 51 | 2 8 | 21 47 | 7 7 |
| 7 | 0 50 | 7 13 | 2 35 | 26 1 | 1 23 | 20 34 | 6 57 |
| 10 | 0 49 | 7 58 | 2 39 | 26 4 | 0 39 | 18 48 | 6 48 |
| 13 | 0 48 | 8 42 | 2 42 | 26 1 | 0 N 34 | 16 45 | 6 38 |
| 16 | 0 47 | 9 26 | 2 44 | 25 52 | 1 22 | 14 54 | 6 29 |
| 19 | 0 46 | 10 10 | 2 45 | 25 36 | 2 7 | 13 42 | 6 19 |
| 22 | 0 45 | 10 53 | 2 45 | 25 14 | 2 25 | 13 18 | 6 10 |
| 25 | 0 44 | 11 35 | 2 46 | 24 47 | 2 32 | 13 35 | 6 1 |
| 28 | 0 42 | 12 16 | 2 44 | 24 14 | 2 28 | 14 22 | 5 51 |

| D
M | h | ♄ | ♂ | ♀ | ♊ | Mutual
Aspts. | Lunar Aspects. | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|------------------|----------------|---|---|---|---|---|
| | Long. | Long. | Long. | Long. | Long. | | ☉ | ☿ | ♈ | ♉ | ♊ | ♋ |
| | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | | | | | | | |
| 1 | 19 m 29 | 20 m 22 | 16 n 30 | 21 f 52 | 28 m 36 | | | Δ | | | ♂ | * |
| 2 | 19 35 | 20 33 | 17 9 | 23 2 | 28 R 30 | | ♂ | | | | ♂ | * |
| 3 | 19 41 | 20 43 | 17 48 | 24 12 | 28 17 | | | | * | * | | ♂ |
| 4 | 19 46 | 20 54 | 18 27 | 25 22 | 27 54 | | | | | | | |
| 5 | 19 52 | 21 4 | 19 7 | 26 31 | 27 21 | | | ♂ | □ | □ | * | ♂ |
| 6 | 19 58 | 21 14 | 19 46 | 27 41 | 26 39 | | * | | | | | |
| 7 | 20 3 | 21 24 | 20 25 | 28 50 | 25 46 | | | | Δ | Δ | □ | * |
| 8 | 20 8 | 21 34 | 21 4 | 0 w 0 | 24 45 | | | | | | | |
| 9 | 20 13 | 21 44 | 21 43 | 1 9 | 23 36 | | □ | Δ | | | Δ | □ |
| 10 | 20 18 | 21 53 | 22 22 | 2 18 | 22 21 | ♊ * ♄ | | | | | * | |
| 11 | 20 23 | 22 3 | 23 2 | 3 27 | 21 2 | ♊ * ♈ | | □ | ♂ | ♂ | | |
| 12 | 20 28 | 22 13 | 23 41 | 4 36 | 19 42 | ☉ ♂ ♊ | Δ | | ♂ | ♂ | | Δ |
| 13 | 20 33 | 22 22 | 24 20 | 5 45 | 18 22 | | | | | | | □ |
| 14 | 20 38 | 22 31 | 24 59 | 6 54 | 17 6 | ☉ * ♄ | | * | | | ♂ | |
| 15 | 20 43 | 22 40 | 25 39 | 8 2 | 15 58 | | | | | | ♂ | |
| 16 | 20 47 | 22 49 | 26 18 | 9 11 | 14 55 | | ♂ | | Δ | Δ | | Δ |
| 17 | 20 52 | 22 58 | 26 57 | 10 20 | 14 3 | | | | | | | ♂ |
| 18 | 20 57 | 23 7 | 27 36 | 11 28 | 13 22 | | | | | | | |
| 19 | 21 1 | 23 16 | 28 16 | 12 36 | 12 54 | ♊ * ♋ | | ♂ | □ | □ | Δ | |
| 20 | 21 6 | 23 28 | 28 55 | 13 44 | 12 36 | | | | | | | |
| 21 | 21 10 | 23 34 | 29 35 | 14 51 | 12 31 | | | | | | ♂ | Δ |
| 22 | 21 14 | 23 42 | 0 m 14 | 15 59 | 12 D 35 | ♊ □ ♈ | Δ | | * | * | □ | |
| 23 | 21 18 | 23 50 | 0 54 | 17 6 | 12 50 | | | * | | | | □ |
| 24 | 21 22 | 23 58 | 1 33 | 18 13 | 13 15 | | | | | | * | |
| 25 | 21 26 | 24 6 | 2 13 | 19 20 | 13 48 | | □ | | | | | |
| 26 | 21 30 | 24 14 | 2 52 | 20 27 | 14 29 | | | □ | ♂ | ♂ | | Δ |
| 27 | 21 34 | 24 22 | 3 32 | 21 33 | 15 16 | ♀ Δ ♈ | * | | | | | * |
| 28 | 21 37 | 24 29 | 4 11 | 22 40 | 16 9 | | | Δ | | | | □ |
| 29 | 21 41 | 24 37 | 4 51 | 23 46 | 17 8 | | | | | | ♂ | |
| 30 | 21 45 | 24 44 | 5 30 | 24 52 | 18 11 | ♀ Δ ♄ | | | * | | | ♂ |

DECEMBER XXXI DAYS.

| D
M | Sun's
Semidia. | | Herschel. | | Saturn. | | Jupiter. | |
|--------|-------------------|----|-----------|---------|---------|---------|----------|---------|
| | | | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. |
| | ' | " | ° | ' | ° | ' | ° | ' |
| 1 | 16 | 16 | 0 N 2 | 22 N 35 | 1 N 58 | 5 N 4 | 1 N 9 | 3 N 7 |
| 4 | 16 | 16 | 0 2 | 22 34 | 1 59 | 5 1 | 1 9 | 2 59 |
| 7 | 16 | 17 | 0 2 | 22 33 | 1 59 | 4 58 | 1 10 | 2 52 |
| 10 | 16 | 17 | 0 2 | 22 32 | 2 0 | 4 56 | 1 11 | 2 45 |
| 13 | 16 | 17 | 0 2 | 22 31 | 2 1 | 4 54 | 1 12 | 2 39 |
| 16 | 16 | 18 | 0 2 | 22 31 | 2 2 | 4 52 | 1 13 | 2 34 |
| 19 | 16 | 18 | 0 2 | 22 30 | 2 3 | 4 51 | 1 14 | 2 29 |
| 22 | 16 | 18 | 0 2 | 22 29 | 2 4 | 4 50 | 1 15 | 2 25 |
| 25 | 16 | 18 | 0 2 | 22 28 | 2 6 | 4 50 | 1 16 | 2 22 |
| 28 | 16 | 18 | 0 2 | 22 27 | 2 7 | 4 50 | 1 17 | 2 19 |
| 31 | 16 | 18 | 0 2 | 22 26 | 2 9 | 4 50 | 1 18 | 2 17 |

| D
M | D
W | Sidereal
Time. | ☉
Long. | ☉
Declin | ☾
Long. | ☾
Lat. | ☾
Declin | ♂
Long. |
|--------|--------|-------------------|------------|-------------|------------|--------------|-------------|------------|
| | | H. M. S. | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 1 | S | 16 41 18 | 9 ♄ 20 22 | 21 S 52 | 0 ♄ 57 | 2 S 54 | 23 S 12 | 14 ♄ 35 |
| 2 | M | 16 45 14 | 10 21 16 | 22 1 16 | 2 1 39 | 24 22 | 14 R 33 | |
| 3 | Tu | 16 49 11 | 11 22 11 | 22 10 0 | 19 23 | 46 14 30 | | |
| 4 | W | 16 53 7 | 12 23 8 | 22 18 15 | 26 1 N 121 | 34 14 28 | | |
| 5 | Th | 16 57 4 | 13 24 5 | 22 26 29 | 32 2 14 | 18 4 14 25 | | |
| 6 | F | 17 1 1 | 14 25 3 | 22 33 13 | 11 3 18 | 13 42 14 23 | | |
| 7 | S | 17 4 57 | 15 26 2 | 22 40 26 | 23 4 9 | 8 49 14 20 | | |
| 8 | S | 17 8 54 | 16 27 1 | 22 46 9 | 11 4 46 | 3 43 14 18 | | |
| 9 | M | 17 12 50 | 17 28 1 | 22 52 21 | 39 5 8 | 1 N 24 14 15 | | |
| 10 | Tu | 17 16 47 | 18 29 2 | 22 57 3 | 51 5 16 | 6 22 14 13 | | |
| 11 | W | 17 20 43 | 19 30 3 | 23 3 15 | 52 5 10 | 11 0 14 10 | | |
| 12 | Th | 17 24 40 | 20 31 4 | 23 7 27 | 46 4 50 | 15 12 14 8 | | |
| 13 | F | 17 28 37 | 21 32 6 | 23 11 9 | 36 4 18 | 18 47 14 5 | | |
| 14 | S | 17 32 33 | 22 33 9 | 23 15 21 | 26 3 36 | 21 36 14 3 | | |
| 15 | S | 17 36 30 | 23 34 12 | 23 18 3 | 20 2 43 | 23 30 14 1 | | |
| 16 | M | 17 40 26 | 24 35 16 | 23 21 15 | 18 1 43 | 24 21 13 58 | | |
| 17 | Tu | 17 44 23 | 25 36 20 | 23 23 27 | 24 0 38 | 24 4 13 55 | | |
| 18 | W | 17 48 19 | 26 37 24 | 23 25 9 | 39 0 S 30 | 22 37 13 53 | | |
| 19 | Th | 17 52 16 | 27 38 30 | 23 26 22 | 3 1 37 | 20 3 13 50 | | |
| 20 | F | 17 56 12 | 28 39 36 | 23 27 4 | 40 2 41 | 16 30 13 48 | | |
| 21 | S | 18 0 9 | 29 40 42 | 23 27 17 | 29 3 38 | 12 9 13 45 | | |
| 22 | S | 18 4 6 | 0 ♄ 41 49 | 23 27 0 | 33 4 24 | 7 10 13 43 | | |
| 23 | M | 18 8 2 | 1 42 57 | 23 27 13 | 52 4 58 | 1 46 13 41 | | |
| 24 | Tu | 18 11 59 | 2 44 5 | 23 26 27 | 29 5 15 | 3 S 49 13 38 | | |
| 25 | W | 18 15 55 | 3 45 14 | 23 24 11 | 23 5 18 | 9 20 13 36 | | |
| 26 | Th | 18 19 52 | 4 46 24 | 23 22 25 | 34 4 56 | 14 29 13 34 | | |
| 27 | F | 18 23 48 | 5 47 34 | 23 20 10 | 1 4 18 | 18 55 13 32 | | |
| 28 | S | 18 27 45 | 6 48 44 | 23 17 24 | 39 3 23 | 22 14 13 30 | | |
| 29 | S | 18 31 41 | 7 49 55 | 23 14 9 | ♄ 25 2 14 | 24 5 13 27 | | |
| 30 | M | 18 35 38 | 8 51 6 | 23 10 24 | 10 0 56 | 24 16 13 25 | | |
| 31 | Tu | 18 39 35 | 9 52 17 | 23 5 8 | 48 0 N 25 | 22 45 13 23 | | |

DECEMBER XXXI DAYS.

| D
M | Mars. | | Venus. | | Mercury. | | Moon's
Node. |
|--------|--------|---------|--------|---------|----------|---------|-----------------|
| | Lat. | Declin. | Lat. | Declin. | Lat. | Declin. | |
| 1 | 0 N 40 | 12 S 57 | 2 S 40 | 23 S 35 | 2 N 12 | 15 S 27 | 5 W 42 |
| 4 | 0 38 | 13 37 | 2 36 | 22 51 | 1 54 | 16 41 | 5 33 |
| 7 | 0 37 | 14 17 | 2 29 | 22 8 | 1 34 | 17 58 | 5 29 |
| 10 | 0 35 | 14 55 | 2 20 | 21 10 | 1 10 | 19 14 | 5 19 |
| 13 | 0 34 | 15 32 | 2 10 | 20 13 | 0 49 | 20 26 | 5 4 |
| 16 | 0 32 | 16 9 | 2 0 | 19 12 | 0 23 | 21 31 | 4 54 |
| 19 | 0 31 | 16 44 | 1 50 | 18 8 | 0 5 | 22 29 | 4 45 |
| 22 | 0 29 | 17 18 | 1 37 | 17 2 | 0 S 16 | 23 17 | 4 35 |
| 25 | 0 28 | 17 51 | 1 22 | 15 53 | 0 36 | 23 55 | 4 26 |
| 28 | 0 26 | 18 23 | 1 4 | 14 42 | 0 50 | 24 22 | 4 6 |
| 31 | 0 25 | 18 54 | 0 48 | 13 29 | 1 1 | 24 38 | 4 17 |

| D | h | μ | ♂ | ♀ | ♂ | Mutual | Lunar Aspects. | | | | | |
|----|-------|-------|-------|-------|-------|--------|----------------|---|---|---|---|-------|
| M | Long. | Long. | Long. | Long. | Long. | Aspts. | ☉ | ☽ | ♂ | ♀ | ♂ | ♀ |
| 1 | 21 49 | 24 51 | 6 10 | 25 58 | 19 19 | | | | | * | | * |
| 2 | 21 51 | 24 58 | 6 49 | 27 4 | 20 29 | | ♂ | ♂ | ☐ | | | |
| 3 | 21 54 | 25 6 | 7 29 | 28 9 | 21 43 | ♀ * ♄ | | | | ☐ | | |
| 4 | 21 57 | 25 12 | 8 9 | 29 14 | 22 59 | | | | Δ | | * | |
| 5 | 22 0 | 25 19 | 8 49 | 0 19 | 24 17 | | | | | Δ | | ♂ * |
| 6 | 22 3 | 25 25 | 9 28 | 1 23 | 25 37 | ☉ Δ ☽ | * | Δ | | | | |
| 7 | 22 6 | 25 31 | 10 8 | 2 27 | 26 59 | | | | | | | ☐ |
| 8 | 22 8 | 25 38 | 10 48 | 3 31 | 28 22 | | | ☐ | | | | |
| 9 | 22 11 | 25 44 | 11 28 | 4 35 | 29 46 | | ☐ | | ♂ | ♄ | | |
| 10 | 22 13 | 25 50 | 12 7 | 5 39 | 1 12 | | | | | | * | Δ |
| 11 | 22 16 | 25 56 | 12 47 | 6 42 | 2 38 | | Δ | ♄ | | | | |
| 12 | 22 18 | 26 2 | 13 27 | 7 45 | 4 5 | ♀ ☐ ♄ | | | | | | |
| 13 | 22 20 | 26 7 | 14 7 | 8 47 | 5 33 | | | | | | ♂ | ☐ |
| 14 | 22 22 | 26 12 | 14 47 | 9 49 | 7 1 | ☉ ☐ ♄ | | | | Δ | | |
| 15 | 22 24 | 26 17 | 15 27 | 10 51 | 8 30 | ♀ ☐ ♄ | | | | | | ♄ |
| 16 | 22 26 | 26 21 | 16 6 | 11 52 | 10 0 | | | ♂ | | | | Δ |
| 17 | 22 28 | 26 26 | 16 46 | 12 53 | 11 30 | | | | ☐ | ☐ | | |
| 18 | 22 29 | 26 30 | 17 26 | 13 53 | 12 59 | ☉ ☐ ♄ | ♄ | | | | | |
| 19 | 22 31 | 26 35 | 18 6 | 14 53 | 14 30 | ♀ ♂ ☽ | | | * | * | Δ | |
| 20 | 22 32 | 26 39 | 18 46 | 15 53 | 16 1 | ♀ * ♄ | | | | | | |
| 21 | 22 31 | 26 44 | 19 26 | 16 52 | 17 32 | | | | * | | | ☐ ♂ Δ |
| 22 | 22 35 | 26 48 | 20 6 | 17 51 | 19 3 | | Δ | | | | | |
| 23 | 22 37 | 26 52 | 20 46 | 18 49 | 20 35 | | | ☐ | | | | |
| 24 | 22 38 | 26 55 | 21 26 | 19 46 | 22 7 | ♄ ☐ ♄ | ☐ | | ♂ | ♂ | * | ☐ |
| 25 | 22 39 | 26 58 | 22 6 | 20 43 | 23 39 | | | Δ | | | | |
| 26 | 22 40 | 27 1 | 22 46 | 21 40 | 25 12 | | | | | | | |
| 27 | 22 41 | 27 4 | 22 27 | 22 36 | 26 45 | | | | | | | |
| 28 | 22 42 | 27 7 | 23 7 | 23 31 | 28 18 | | | | | | | |
| 29 | 22 43 | 27 10 | 24 47 | 24 26 | 29 51 | | | | | | | |
| 30 | 22 44 | 27 12 | 25 28 | 25 20 | 1 26 | | | | | | | |
| 31 | 22 44 | 27 15 | 26 8 | 26 14 | 2 59 | | | | | | | |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen. | | 3 | 3 |
|----------------------------|----|------|----|----|-----|--------|----|----|----|----------------------------|-----|----|----|----|----|--------|-----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 0 | 0 | 0 | 0 | 10 | 20 | 30 | 13 | 14 | 3 | 1 | 51 | 37 | 0 | 1 | 10 | 20 | 30 | 13 | 14 |
| 0 | 0 | 30 | 1 | 11 | 21 | 31 | 14 | 15 | 4 | 1 | 52 | 37 | 1 | 1 | 11 | 21 | 31 | 14 | 15 |
| 0 | 0 | 60 | 2 | 12 | 22 | 32 | 15 | 16 | 5 | 1 | 53 | 37 | 2 | 2 | 12 | 22 | 32 | 15 | 16 |
| 0 | 0 | 90 | 3 | 13 | 23 | 33 | 16 | 17 | 6 | 2 | 54 | 37 | 3 | 3 | 13 | 23 | 33 | 16 | 17 |
| 0 | 0 | 120 | 4 | 14 | 24 | 34 | 17 | 18 | 7 | 2 | 55 | 37 | 4 | 4 | 14 | 24 | 34 | 17 | 18 |
| 0 | 0 | 150 | 5 | 15 | 25 | 35 | 18 | 19 | 8 | 2 | 56 | 37 | 5 | 5 | 15 | 25 | 35 | 18 | 19 |
| 0 | 0 | 180 | 6 | 16 | 26 | 36 | 19 | 20 | 9 | 2 | 57 | 37 | 6 | 6 | 16 | 26 | 36 | 19 | 20 |
| 0 | 0 | 210 | 7 | 17 | 27 | 37 | 20 | 21 | 10 | 2 | 58 | 37 | 7 | 7 | 17 | 27 | 37 | 20 | 21 |
| 0 | 0 | 240 | 8 | 18 | 28 | 38 | 21 | 22 | 11 | 2 | 59 | 37 | 8 | 8 | 18 | 28 | 38 | 21 | 22 |
| 0 | 0 | 270 | 9 | 19 | 29 | 39 | 22 | 23 | 12 | 2 | 60 | 37 | 9 | 9 | 19 | 29 | 39 | 22 | 23 |
| 0 | 0 | 300 | 10 | 20 | 30 | 40 | 23 | 24 | 13 | 2 | 61 | 37 | 10 | 10 | 20 | 30 | 40 | 23 | 24 |
| 0 | 0 | 330 | 11 | 21 | 31 | 41 | 24 | 25 | 14 | 2 | 62 | 37 | 11 | 11 | 21 | 31 | 41 | 24 | 25 |
| 0 | 0 | 360 | 12 | 22 | 32 | 42 | 25 | 26 | 15 | 2 | 63 | 37 | 12 | 12 | 22 | 32 | 42 | 25 | 26 |
| 0 | 0 | 390 | 13 | 23 | 33 | 43 | 26 | 27 | 16 | 2 | 64 | 37 | 1 | 1 | 23 | 33 | 43 | 26 | 27 |
| 0 | 0 | 420 | 14 | 24 | 34 | 44 | 27 | 28 | 17 | 2 | 65 | 37 | 2 | 2 | 24 | 34 | 44 | 27 | 28 |
| 0 | 0 | 450 | 15 | 25 | 35 | 45 | 28 | 29 | 18 | 2 | 66 | 37 | 3 | 3 | 25 | 35 | 45 | 28 | 29 |
| 0 | 0 | 480 | 16 | 26 | 36 | 46 | 29 | 30 | 19 | 2 | 67 | 37 | 4 | 4 | 26 | 36 | 46 | 29 | 30 |
| 0 | 0 | 510 | 17 | 27 | 37 | 47 | 30 | 31 | 20 | 2 | 68 | 37 | 5 | 5 | 27 | 37 | 47 | 30 | 31 |
| 0 | 0 | 540 | 18 | 28 | 38 | 48 | 31 | 32 | 21 | 2 | 69 | 37 | 6 | 6 | 28 | 38 | 48 | 31 | 32 |
| 0 | 0 | 570 | 19 | 29 | 39 | 49 | 32 | 33 | 22 | 2 | 70 | 37 | 7 | 7 | 29 | 39 | 49 | 32 | 33 |
| 0 | 0 | 600 | 20 | 30 | 40 | 50 | 33 | 34 | 23 | 2 | 71 | 37 | 8 | 8 | 30 | 40 | 50 | 33 | 34 |
| 0 | 0 | 630 | 21 | 31 | 41 | 51 | 34 | 35 | 24 | 2 | 72 | 37 | 9 | 9 | 31 | 41 | 51 | 34 | 35 |
| 0 | 0 | 660 | 22 | 32 | 42 | 52 | 35 | 36 | 25 | 2 | 73 | 37 | 10 | 10 | 32 | 42 | 52 | 35 | 36 |
| 0 | 0 | 690 | 23 | 33 | 43 | 53 | 36 | 37 | 26 | 2 | 74 | 37 | 11 | 11 | 33 | 43 | 53 | 36 | 37 |
| 0 | 0 | 720 | 24 | 34 | 44 | 54 | 37 | 38 | 27 | 2 | 75 | 37 | 12 | 12 | 34 | 44 | 54 | 37 | 38 |
| 0 | 0 | 750 | 25 | 35 | 45 | 55 | 38 | 39 | 28 | 2 | 76 | 37 | 1 | 1 | 35 | 45 | 55 | 38 | 39 |
| 0 | 0 | 780 | 26 | 36 | 46 | 56 | 39 | 40 | 29 | 2 | 77 | 37 | 2 | 2 | 36 | 46 | 56 | 39 | 40 |
| 0 | 0 | 810 | 27 | 37 | 47 | 57 | 40 | 41 | 30 | 2 | 78 | 37 | 3 | 3 | 37 | 47 | 57 | 40 | 41 |
| 0 | 0 | 840 | 28 | 38 | 48 | 58 | 41 | 42 | 31 | 2 | 79 | 37 | 4 | 4 | 38 | 48 | 58 | 41 | 42 |
| 0 | 0 | 870 | 29 | 39 | 49 | 59 | 42 | 43 | 32 | 2 | 80 | 37 | 5 | 5 | 39 | 49 | 59 | 42 | 43 |
| 0 | 0 | 900 | 30 | 40 | 50 | 60 | 43 | 44 | 33 | 2 | 81 | 37 | 6 | 6 | 40 | 50 | 60 | 43 | 44 |
| 0 | 0 | 930 | 31 | 41 | 51 | 61 | 44 | 45 | 34 | 2 | 82 | 37 | 7 | 7 | 41 | 51 | 61 | 44 | 45 |
| 0 | 0 | 960 | 32 | 42 | 52 | 62 | 45 | 46 | 35 | 2 | 83 | 37 | 8 | 8 | 42 | 52 | 62 | 45 | 46 |
| 0 | 0 | 990 | 33 | 43 | 53 | 63 | 46 | 47 | 36 | 2 | 84 | 37 | 9 | 9 | 43 | 53 | 63 | 46 | 47 |
| 0 | 0 | 1020 | 34 | 44 | 54 | 64 | 47 | 48 | 37 | 2 | 85 | 37 | 10 | 10 | 44 | 54 | 64 | 47 | 48 |
| 0 | 0 | 1050 | 35 | 45 | 55 | 65 | 48 | 49 | 38 | 2 | 86 | 37 | 11 | 11 | 45 | 55 | 65 | 48 | 49 |
| 0 | 0 | 1080 | 36 | 46 | 56 | 66 | 49 | 50 | 39 | 2 | 87 | 37 | 12 | 12 | 46 | 56 | 66 | 49 | 50 |
| 0 | 0 | 1110 | 37 | 47 | 57 | 67 | 50 | 51 | 40 | 2 | 88 | 37 | 1 | 1 | 47 | 57 | 67 | 50 | 51 |
| 0 | 0 | 1140 | 38 | 48 | 58 | 68 | 51 | 52 | 41 | 2 | 89 | 37 | 2 | 2 | 48 | 58 | 68 | 51 | 52 |
| 0 | 0 | 1170 | 39 | 49 | 59 | 69 | 52 | 53 | 42 | 2 | 90 | 37 | 3 | 3 | 49 | 59 | 69 | 52 | 53 |
| 0 | 0 | 1200 | 40 | 50 | 60 | 70 | 53 | 54 | 43 | 2 | 91 | 37 | 4 | 4 | 50 | 60 | 70 | 53 | 54 |
| 0 | 0 | 1230 | 41 | 51 | 61 | 71 | 54 | 55 | 44 | 2 | 92 | 37 | 5 | 5 | 51 | 61 | 71 | 54 | 55 |
| 0 | 0 | 1260 | 42 | 52 | 62 | 72 | 55 | 56 | 45 | 2 | 93 | 37 | 6 | 6 | 52 | 62 | 72 | 55 | 56 |
| 0 | 0 | 1290 | 43 | 53 | 63 | 73 | 56 | 57 | 46 | 2 | 94 | 37 | 7 | 7 | 53 | 63 | 73 | 56 | 57 |
| 0 | 0 | 1320 | 44 | 54 | 64 | 74 | 57 | 58 | 47 | 2 | 95 | 37 | 8 | 8 | 54 | 64 | 74 | 57 | 58 |
| 0 | 0 | 1350 | 45 | 55 | 65 | 75 | 58 | 59 | 48 | 2 | 96 | 37 | 9 | 9 | 55 | 65 | 75 | 58 | 59 |
| 0 | 0 | 1380 | 46 | 56 | 66 | 76 | 59 | 60 | 49 | 2 | 97 | 37 | 10 | 10 | 56 | 66 | 76 | 59 | 60 |
| 0 | 0 | 1410 | 47 | 57 | 67 | 77 | 60 | 61 | 50 | 2 | 98 | 37 | 11 | 11 | 57 | 67 | 77 | 60 | 61 |
| 0 | 0 | 1440 | 48 | 58 | 68 | 78 | 61 | 62 | 51 | 2 | 99 | 37 | 12 | 12 | 58 | 68 | 78 | 61 | 62 |
| 0 | 0 | 1470 | 49 | 59 | 69 | 79 | 62 | 63 | 52 | 2 | 100 | 37 | 1 | 1 | 59 | 69 | 79 | 62 | 63 |
| 0 | 0 | 1500 | 50 | 60 | 70 | 80 | 63 | 64 | 53 | 2 | 101 | 37 | 2 | 2 | 60 | 70 | 80 | 63 | 64 |
| 0 | 0 | 1530 | 51 | 61 | 71 | 81 | 64 | 65 | 54 | 2 | 102 | 37 | 3 | 3 | 61 | 71 | 81 | 64 | 65 |
| 0 | 0 | 1560 | 52 | 62 | 72 | 82 | 65 | 66 | 55 | 2 | 103 | 37 | 4 | 4 | 62 | 72 | 82 | 65 | 66 |
| 0 | 0 | 1590 | 53 | 63 | 73 | 83 | 66 | 67 | 56 | 2 | 104 | 37 | 5 | 5 | 63 | 73 | 83 | 66 | 67 |
| 0 | 0 | 1620 | 54 | 64 | 74 | 84 | 67 | 68 | 57 | 2 | 105 | 37 | 6 | 6 | 64 | 74 | 84 | 67 | 68 |
| 0 | 0 | 1650 | 55 | 65 | 75 | 85 | 68 | 69 | 58 | 2 | 106 | 37 | 7 | 7 | 65 | 75 | 85 | 68 | 69 |
| 0 | 0 | 1680 | 56 | 66 | 76 | 86 | 69 | 70 | 59 | 2 | 107 | 37 | 8 | 8 | 66 | 76 | 86 | 69 | 70 |
| 0 | 0 | 1710 | 57 | 67 | 77 | 87 | 70 | 71 | 60 | 2 | 108 | 37 | 9 | 9 | 67 | 77 | 87 | 70 | 71 |
| 0 | 0 | 1740 | 58 | 68 | 78 | 88 | 71 | 72 | 61 | 2 | 109 | 37 | 10 | 10 | 68 | 78 | 88 | 71 | 72 |
| 0 | 0 | 1770 | 59 | 69 | 79 | 89 | 72 | 73 | 62 | 2 | 110 | 37 | 11 | 11 | 69 | 79 | 89 | 72 | 73 |
| 0 | 0 | 1800 | 60 | 70 | 80 | 90 | 73 | 74 | 63 | 2 | 111 | 37 | 12 | 12 | 70 | 80 | 90 | 73 | 74 |
| 0 | 0 | 1830 | 61 | 71 | 81 | 91 | 74 | 75 | 64 | 2 | 112 | 37 | 1 | 1 | 71 | 81 | 91 | 74 | 75 |
| 0 | 0 | 1860 | 62 | 72 | 82 | 92 | 75 | 76 | 65 | 2 | 113 | 37 | 2 | 2 | 72 | 82 | 92 | 75 | 76 |
| 0 | 0 | 1890 | 63 | 73 | 83 | 93 | 76 | 77 | 66 | 2 | 114 | 37 | 3 | 3 | 73 | 83 | 93 | 76 | 77 |
| 0 | 0 | 1920 | 64 | 74 | 84 | 94 | 77 | 78 | 67 | 2 | 115 | 37 | 4 | 4 | 74 | 84 | 94 | 77 | 78 |
| 0 | 0 | 1950 | 65 | 75 | 85 | 95 | 78 | 79 | 68 | 2 | 116 | 37 | 5 | 5 | 75 | 85 | 95 | 78 | 79 |
| 0 | 0 | 1980 | 66 | 76 | 86 | 96 | 79 | 80 | 69 | 2 | 117 | 37 | 6 | 6 | 76 | 86 | 96 | 79 | 80 |
| 0 | 0 | 2010 | 67 | 77 | 87 | 97 | 80 | 81 | 70 | 2 | 118 | 37 | 7 | 7 | 77 | 87 | 97 | 80 | 81 |
| 0 | 0 | 2040 | 68 | 78 | 88 | 98 | 81 | 82 | 71 | 2 | 119 | 37 | 8 | 8 | 78 | 88 | 98 | 81 | 82 |
| 0 | 0 | 2070 | 69 | 79 | 89 | 99 | 82 | 83 | 72 | 2 | 120 | 37 | 9 | 9 | 79 | 89 | 99 | 82 | 83 |
| 0 | 0 | 2100 | 70 | 80 | 90 | 100 | 83 | 84 | 73 | 2 | 121 | 37 | 10 | 10 | 80 | 90 | 100 | 83 | 84 |
| 0 | 0 | 2130 | 71 | 81 | 91 | 101 | 84 | 85 | 74 | 2 | 122 | 37 | 11 | 11 | 81 | 91 | 101 | 84 | 85 |
| 0 | 0 | 2160 | 72 | 82 | 92 | 102 | 85 | 86 | 75 | 2 | 123 | 37 | 12 | 12 | 82 | 92 | 102 | 85 | 86 |
| 0 | 0 | 2190 | 73 | 83 | 93 | 103 | 86 | 87 | 76 | 2 | 124 | 37 | 1 | 1 | 83 | 93 | 103 | 86 | 87 |
| 0 | 0 | 2220 | 74 | 84 | 94 | 104 | 87 | 88 | 77 | 2 | 125 | 37 | 2 | 2 | 84 | 94 | 104 | 87 | 88 |
| 0 | 0 | 2250 | 75 | 85 | 95 | 105 | 88 | 89 | 78 | 2 | 126 | 37 | 3 | 3 | 85 | 95 | 105 | 88 | 89 |
| 0 | 0 | 2280 | 76 | 86 | 96 | 106 | 89 | 90 | 79 | 2 | 127 | 37 | 4 | 4 | 86 | 96 | 106 | 89 | 90 |
| 0 | 0 | 2310 | 77 | 87 | 97 | 107 | 90 | 91 | 80 | 2 | 128 | 37 | 5 | 5 | 87 | 97 | 107 | 90 | 91 |
| 0 | 0 | 2340 | 78 | 88 | 98 | 108 | 91 | 92 | 81 | 2 | 129 | 37 | 6 | 6 | 88 | 98 | 108 | 91 | 92 |
| 0 | 0 | 2370 | 79 | 89 | 99 | 109 | 92 | 93 | 82 | 2 | 130 | 37 | 7 | 7 | 89 | 99 | 109 | 92 | 93 |
| 0 | 0 | 2400 | 80 | 90 | 100 | 110 | 93 | 94 | 83 | 2 | 131 | 37 | 8 | 8 | 90 | 100 | 110 | 93 | 94 |
| 0 | 0 | 2430 | 81 | 91 | 101 | 111 | 94 | 95 | 84 | 2 | 132 | 37 | 9 | 9 | 91 | 101 | 111 | 94 | 95 |
| 0 | 0 | 2460 | 82 | 92 | 102 | 112 | 95 | 96 | 85 | 2 | 133 | 37 | 10 | 10 | 92 | 102 | 112 | 95 | 96 |
| 0 | 0 | 2490 | 83 | 93 | 103 | 113 | 96 | 97 | 86 | 2 | 134 | 37 | 11 | 11 | 93 | 103 | 113 | 96 | 97 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 25' N.

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 8 | 8 | 45 | 0 | 5 | 2 | 22 | 6 | 18 | 21 | 10 | 8 | 23 | 0 | 2 | 25 | 12 | 28 | 11 | 20 |
| 8 | 12 | 54 | 1 | 6 | 2 | 22 | 48 | 19 | 22 | 10 | 12 | 12 | 1 | 3 | 26 | 13 | 6 | 12 | 21 |
| 8 | 17 | 3 | 2 | 7 | 3 | 23 | 30 | 19 | 23 | 10 | 16 | 0 | 2 | 3 | 26 | 13 | 45 | 13 | 21 |
| 8 | 21 | 11 | 3 | 8 | 4 | 24 | 13 | 20 | 24 | 10 | 19 | 48 | 3 | 4 | 27 | 14 | 25 | 14 | 22 |
| 8 | 25 | 19 | 4 | 9 | 5 | 24 | 55 | 21 | 25 | 10 | 23 | 35 | 4 | 5 | 28 | 15 | 4 | 14 | 23 |
| 8 | 29 | 26 | 5 | 10 | 6 | 25 | 37 | 22 | 26 | 10 | 27 | 22 | 5 | 6 | 29 | 15 | 42 | 15 | 24 |
| 8 | 33 | 31 | 6 | 10 | 6 | 26 | 19 | 22 | 27 | 10 | 31 | 8 | 6 | 7 | 29 | 16 | 21 | 16 | 25 |
| 8 | 37 | 37 | 7 | 11 | 7 | 27 | 1 | 23 | 28 | 10 | 34 | 54 | 7 | 8 | m | 17 | 0 | 17 | 26 |
| 8 | 41 | 41 | 8 | 12 | 8 | 27 | 43 | 24 | 28 | 10 | 38 | 40 | 8 | 9 | 1 | 17 | 39 | 18 | 27 |
| 8 | 45 | 45 | 9 | 13 | 9 | 28 | 24 | 25 | 29 | 10 | 42 | 25 | 9 | 10 | 2 | 18 | 17 | 19 | 28 |
| 8 | 49 | 48 | 10 | 14 | 9 | 29 | 6 | 26 | 27 | 10 | 46 | 9 | 10 | 10 | 3 | 18 | 55 | 19 | 28 |
| 8 | 53 | 51 | 11 | 15 | 10 | 29 | 47 | 26 | 1 | 10 | 49 | 53 | 11 | 11 | 3 | 19 | 34 | 20 | m |
| 8 | 57 | 52 | 12 | 16 | 11 | 0m | 28 | 27 | 2 | 10 | 53 | 37 | 12 | 12 | 4 | 20 | 13 | 21 | 1 |
| 9 | 1 | 53 | 13 | 17 | 12 | 1 | 9 | 28 | 3 | 10 | 57 | 20 | 13 | 13 | 4 | 20 | 51 | 22 | 2 |
| 9 | 5 | 53 | 14 | 18 | 13 | 1 | 50 | 29 | 4 | 11 | 1 | 3 | 14 | 14 | 5 | 21 | 30 | 23 | 4 |
| 9 | 9 | 53 | 15 | 18 | 13 | 2 | 31 | 29 | 5 | 11 | 4 | 46 | 15 | 15 | 6 | 22 | 8 | 24 | 5 |
| 9 | 13 | 52 | 16 | 19 | 14 | 3 | 12 | f | 6 | 11 | 8 | 28 | 16 | 16 | 6 | 22 | 46 | 24 | 6 |
| 9 | 17 | 50 | 17 | 20 | 15 | 3 | 52 | 1 | 7 | 11 | 12 | 10 | 17 | 17 | 7 | 23 | 24 | 25 | 7 |
| 9 | 21 | 47 | 18 | 21 | 16 | 4 | 32 | 2 | 8 | 11 | 15 | 22 | 18 | 17 | 8 | 24 | 2 | 26 | 8 |
| 9 | 25 | 44 | 19 | 22 | 17 | 5 | 12 | 3 | 9 | 11 | 19 | 34 | 19 | 18 | 9 | 24 | 40 | 27 | 9 |
| 9 | 29 | 40 | 20 | 23 | 17 | 5 | 52 | 3 | 10 | 11 | 23 | 15 | 20 | 19 | 9 | 25 | 19 | 28 | 10 |
| 9 | 33 | 35 | 21 | 24 | 18 | 6 | 32 | 4 | 11 | 11 | 26 | 56 | 21 | 20 | 10 | 25 | 59 | 29 | 11 |
| 9 | 37 | 29 | 22 | 25 | 19 | 7 | 12 | 5 | 12 | 11 | 30 | 37 | 22 | 20 | 11 | 26 | 39 | 29 | 12 |
| 9 | 41 | 23 | 23 | 26 | 20 | 7 | 52 | 6 | 13 | 11 | 34 | 18 | 23 | 21 | 11 | 27 | 15 | 27 | 13 |
| 9 | 45 | 16 | 24 | 27 | 21 | 8 | 23 | 7 | 14 | 11 | 37 | 58 | 24 | 22 | 12 | 27 | 52 | 0 | 14 |
| 9 | 49 | 9 | 25 | 28 | 21 | 9 | 12 | 8 | 15 | 11 | 41 | 39 | 25 | 23 | 13 | 28 | 32 | 1 | 15 |
| 9 | 53 | 1 | 26 | 28 | 22 | 9 | 51 | 8 | 16 | 11 | 45 | 19 | 26 | 24 | 13 | 29 | 11 | 2 | 16 |
| 9 | 56 | 52 | 27 | 29 | 23 | 10 | 39 | 9 | 17 | 11 | 49 | 0 | 27 | 25 | 14 | 29 | 52 | 3 | 17 |
| 10 | 0 | 48 | 28 | Δ | 24 | 11 | 9 | 10 | 18 | 11 | 53 | 49 | 28 | 26 | 15 | 0f | 35 | 4 | 18 |
| 10 | 4 | 38 | 28 | 1 | 24 | 11 | 48 | 10 | 19 | 11 | 56 | 20 | 29 | 26 | 15 | 1 | 11 | 5 | 20 |
| 10 | 8 | 23 | 30 | 2 | 25 | 12 | 28 | 11 | 20 | 12 | 0 | 0 | 30 | 27 | 16 | 1 | 47 | 6 | 21 |

| Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 | Right Asc.
of Meridian. | | | 10 | 11 | 12 | Ascen | | 2 | 3 |
|----------------------------|----|----|----|----|----|-------|----|----|----|----------------------------|----|----|----|----|----|-------|----|----|----|
| H. | M. | S. | ° | ° | ° | ° | ' | ° | ° | H. | M. | S. | ° | ° | ° | ° | ' | ° | ° |
| 12 | 0 | 0 | 0 | 27 | 16 | 1 | 47 | 6 | 21 | 12 | 51 | 37 | 0 | 21 | 8 | 28 | 4 | 7 | 27 |
| 12 | 3 | 40 | 1 | 28 | 17 | 2 | 33 | 7 | 22 | 12 | 55 | 27 | 1 | 22 | 9 | 23 | 52 | 9 | 28 |
| 12 | 7 | 29 | 2 | 29 | 18 | 3 | 11 | 8 | 23 | 12 | 59 | 17 | 2 | 23 | 9 | 24 | 42 | 10 | 29 |
| 12 | 11 | 0 | 3 | m | 18 | 3 | 49 | 9 | 24 | 14 | 3 | 8 | 3 | 24 | 10 | 25 | 31 | 11 | 1 |
| 12 | 14 | 41 | 4 | 0 | 19 | 4 | 28 | 10 | 25 | 14 | 6 | 59 | 4 | 25 | 11 | 26 | 21 | 12 | 2 |
| 12 | 18 | 21 | 5 | 1 | 20 | 5 | 7 | 10 | 26 | 14 | 10 | 51 | 5 | 26 | 12 | 27 | 12 | 14 | 4 |
| 12 | 22 | 2 | 6 | 2 | 20 | 5 | 47 | 11 | 28 | 14 | 14 | 44 | 6 | 26 | 13 | 28 | 5 | 16 | 6 |
| 12 | 26 | 48 | 7 | 3 | 21 | 6 | 27 | 12 | 29 | 14 | 18 | 37 | 7 | 27 | 13 | 28 | 58 | 17 | 7 |
| 12 | 29 | 23 | 8 | 3 | 22 | 7 | 6 | 12 | 30 | 14 | 22 | 31 | 8 | 28 | 14 | 29 | 51 | 19 | 8 |
| 12 | 33 | 4 | 9 | 4 | 23 | 7 | 46 | 14 | 1 | 14 | 26 | 25 | 9 | 29 | 15 | 0v | 45 | 20 | 9 |
| 12 | 36 | 45 | 10 | 5 | 23 | 8 | 26 | 15 | 2 | 14 | 30 | 20 | 10 | f | 16 | 1 | 40 | 21 | 11 |
| 12 | 40 | 26 | 11 | 6 | 24 | 9 | 7 | 16 | 3 | 14 | 34 | 16 | 11 | 1 | 16 | 2 | 36 | 23 | 12 |
| 12 | 44 | 8 | 12 | 7 | 25 | 9 | 48 | 17 | 5 | 14 | 38 | 12 | 12 | 1 | 17 | 3 | 32 | 24 | 13 |
| 12 | 47 | 50 | 13 | 7 | 26 | 10 | 29 | 18 | 6 | 14 | 42 | 10 | 13 | 2 | 18 | 4 | 30 | 26 | 15 |
| 12 | 51 | 38 | 14 | 8 | 26 | 11 | 11 | 19 | 7 | 14 | 46 | 8 | 14 | 3 | 19 | 5 | 28 | 28 | 16 |
| 12 | 55 | 14 | 15 | 9 | 27 | 11 | 52 | 20 | 8 | 14 | 50 | 7 | 15 | 4 | 20 | 6 | 28 | 29 | 18 |
| 12 | 58 | 57 | 16 | 10 | 27 | 12 | 35 | 21 | 9 | 14 | 54 | 7 | 16 | 5 | 21 | 7 | 28 | 30 | 19 |
| 12 | 2 | 40 | 17 | 11 | 28 | 13 | 17 | 22 | 10 | 14 | 59 | 7 | 17 | 6 | 22 | 8 | 30 | 2 | 20 |
| 12 | 6 | 26 | 18 | 11 | 29 | 14 | 0 | 23 | 12 | 15 | 2 | 8 | 18 | 7 | 23 | 9 | 32 | 4 | 21 |
| 12 | 10 | 7 | 19 | 12 | 29 | 14 | 47 | 24 | 13 | 15 | 6 | 9 | 19 | 7 | 24 | 10 | 59 | 6 | 22 |
| 12 | 13 | 51 | 20 | 13 | f | 15 | 27 | 25 | 14 | 15 | 10 | 12 | 20 | 8 | 24 | 11 | 44 | 8 | 24 |
| 12 | 17 | 25 | 21 | 14 | 1 | 16 | 11 | 26 | 15 | 15 | 14 | 15 | 21 | 9 | 25 | 12 | 52 | 9 | 25 |
| 12 | 21 | 20 | 22 | 15 | 2 | 16 | 54 | 27 | 17 | 15 | 18 | 19 | 22 | 10 | 26 | 14 | 0 | 11 | 27 |
| 12 | 25 | 6 | 23 | 15 | 2 | 17 | 28 | 28 | 18 | 15 | 22 | 23 | 23 | 11 | 27 | 15 | 10 | 12 | 28 |
| 12 | 28 | 52 | 24 | 16 | 3 | 18 | 25 | m | 19 | 15 | 26 | 29 | 24 | 12 | 28 | 16 | 21 | 15 | 29 |
| 12 | 32 | 28 | 25 | 17 | 4 | 19 | 10 | 1 | 20 | 15 | 30 | 35 | 25 | 13 | 28 | 17 | 37 | 17 | 30 |
| 12 | 36 | 25 | 26 | 18 | 5 | 19 | 57 | 2 | 22 | 15 | 34 | 41 | 26 | 14 | 27 | 18 | 52 | 19 | 31 |
| 12 | 40 | 12 | 27 | 19 | 6 | 20 | 42 | 3 | 25 | 15 | 38 | 49 | 27 | 15 | 1 | 20 | 10 | 20 | 32 |
| 12 | 44 | 0 | 28 | 20 | 6 | 21 | 29 | 4 | 26 | 15 | 42 | 57 | 28 | 15 | 2 | 21 | 28 | 22 | 34 |
| 12 | 47 | 48 | 29 | 21 | 7 | 22 | 18 | 5 | 27 | 15 | 47 | 6 | 29 | 16 | 3 | 22 | 50 | 24 | 35 |
| 12 | 51 | 27 | 30 | 22 | 8 | 23 | 6 | 6 | 28 | 15 | 51 | 15 | 30 | 17 | 4 | 23 | 12 | 26 | 36 |

TABLES OF HOUSES FOR LIVERPOOL. Latitude 53° 35' N.

| Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascension | | 3 | 4 | Right Asc. of Meridian. | | | 10 | 11 | 12 | Ascension | | 3 | 4 |
|-------------------------|----|----|----|----|----|-----------|----|----|----|-------------------------|----|----|----|----|----|-----------|-----|----|----|
| H. | M. | S. | ° | ' | " | ° | ' | ° | ' | H. | M. | S. | ° | ' | " | ° | ' | ° | ' |
| 18 | 51 | 16 | 9 | 17 | 6 | 24 | 12 | 28 | 7 | 18 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18 | 56 | 26 | 1 | 18 | 5 | 25 | 20 | 29 | 8 | 18 | 6 | 22 | 1 | 1 | 1 | 1 | 25 | 21 | 14 |
| 18 | 59 | 34 | 2 | 19 | 4 | 27 | 9 | 30 | 10 | 18 | 9 | 43 | 2 | 2 | 2 | 2 | 46 | 23 | 13 |
| 18 | 3 | 42 | 3 | 20 | 7 | 28 | 40 | 7 | 11 | 18 | 13 | 5 | 3 | 3 | 3 | 3 | 49 | 26 | 14 |
| 18 | 8 | 0 | 4 | 21 | 8 | 0 | 11 | 2 | 12 | 18 | 17 | 20 | 4 | 4 | 4 | 4 | 51 | 28 | 17 |
| 18 | 12 | 12 | 5 | 22 | 9 | 1 | 48 | 4 | 13 | 18 | 21 | 28 | 5 | 5 | 5 | 5 | 54 | 29 | 18 |
| 18 | 16 | 20 | 6 | 23 | 10 | 2 | 28 | 6 | 14 | 18 | 26 | 9 | 6 | 6 | 6 | 6 | 56 | 30 | 19 |
| 18 | 20 | 40 | 7 | 24 | 11 | 3 | 9 | 9 | 15 | 18 | 30 | 20 | 7 | 7 | 7 | 7 | 58 | 31 | 21 |
| 18 | 24 | 54 | 8 | 25 | 12 | 4 | 55 | 11 | 16 | 18 | 34 | 31 | 8 | 8 | 8 | 8 | 59 | 32 | 22 |
| 18 | 28 | 10 | 9 | 26 | 13 | 5 | 44 | 13 | 17 | 18 | 38 | 11 | 9 | 9 | 9 | 9 | 60 | 33 | 23 |
| 18 | 32 | 28 | 10 | 27 | 14 | 10 | 38 | 15 | 18 | 18 | 42 | 21 | 10 | 1 | 0 | 0 | 61 | 34 | 24 |
| 18 | 37 | 48 | 11 | 28 | 15 | 12 | 27 | 17 | 19 | 18 | 47 | 31 | 11 | 1 | 1 | 1 | 62 | 35 | 25 |
| 18 | 41 | 53 | 12 | 29 | 16 | 14 | 20 | 19 | 20 | 18 | 52 | 11 | 12 | 2 | 2 | 2 | 63 | 36 | 26 |
| 18 | 46 | 18 | 13 | 30 | 17 | 16 | 27 | 21 | 21 | 18 | 56 | 31 | 13 | 3 | 3 | 3 | 64 | 37 | 27 |
| 18 | 50 | 34 | 14 | 1 | 18 | 18 | 20 | 23 | 22 | 18 | 0 | 30 | 14 | 4 | 4 | 4 | 65 | 38 | 28 |
| 18 | 54 | 52 | 15 | 2 | 19 | 20 | 49 | 25 | 23 | 18 | 6 | 3 | 15 | 5 | 5 | 5 | 66 | 39 | 29 |
| 18 | 58 | 10 | 16 | 3 | 20 | 22 | 3 | 27 | 24 | 18 | 9 | 20 | 16 | 6 | 6 | 6 | 67 | 40 | 30 |
| 17 | 3 | 28 | 17 | 4 | 21 | 25 | 20 | 29 | 25 | 19 | 13 | 44 | 17 | 7 | 7 | 7 | 68 | 41 | 31 |
| 17 | 7 | 49 | 18 | 5 | 22 | 27 | 41 | 3 | 26 | 19 | 18 | 1 | 18 | 8 | 8 | 8 | 69 | 42 | 32 |
| 17 | 12 | 9 | 19 | 6 | 23 | 0 | 7 | 5 | 27 | 19 | 22 | 18 | 19 | 9 | 9 | 9 | 70 | 43 | 33 |
| 17 | 16 | 28 | 20 | 7 | 24 | 2 | 24 | 8 | 28 | 19 | 26 | 34 | 20 | 10 | 4 | 0 | 71 | 44 | 34 |
| 17 | 20 | 49 | 21 | 8 | 25 | 5 | 9 | 9 | 29 | 19 | 30 | 30 | 21 | 11 | 5 | 5 | 72 | 45 | 35 |
| 17 | 25 | 9 | 22 | 9 | 26 | 7 | 44 | 7 | 30 | 19 | 35 | 5 | 22 | 12 | 10 | 10 | 73 | 46 | 36 |
| 17 | 29 | 30 | 23 | 10 | 27 | 10 | 22 | 8 | 31 | 19 | 39 | 20 | 23 | 13 | 11 | 11 | 74 | 47 | 37 |
| 17 | 33 | 51 | 24 | 11 | 1 | 12 | 6 | 10 | 32 | 19 | 43 | 24 | 24 | 14 | 12 | 12 | 75 | 48 | 38 |
| 17 | 38 | 12 | 25 | 12 | 2 | 15 | 51 | 12 | 33 | 19 | 47 | 47 | 25 | 15 | 13 | 13 | 76 | 49 | 39 |
| 17 | 43 | 34 | 26 | 13 | 4 | 18 | 27 | 14 | 34 | 19 | 52 | 0 | 26 | 16 | 14 | 14 | 77 | 50 | 40 |
| 17 | 48 | 54 | 27 | 14 | 5 | 21 | 26 | 15 | 35 | 19 | 56 | 12 | 27 | 17 | 15 | 15 | 78 | 51 | 41 |
| 17 | 51 | 17 | 28 | 15 | 7 | 24 | 14 | 17 | 36 | 20 | 0 | 24 | 28 | 18 | 16 | 16 | 79 | 52 | 42 |
| 17 | 55 | 38 | 29 | 16 | 8 | 27 | 7 | 19 | 37 | 20 | 4 | 26 | 29 | 19 | 17 | 17 | 80 | 53 | 43 |
| 18 | 0 | 0 | 30 | 17 | 10 | 30 | 0 | 20 | 38 | 20 | 8 | 45 | 30 | 20 | 18 | 18 | 81 | 54 | 44 |
| 20 | 0 | 45 | 0 | 23 | 3 | 6 | 47 | 25 | 13 | 22 | 8 | 28 | 0 | 3 | 23 | 6 | 82 | 55 | 45 |
| 20 | 12 | 54 | 1 | 24 | 4 | 7 | 10 | 26 | 14 | 22 | 12 | 12 | 1 | 4 | 24 | 7 | 83 | 56 | 46 |
| 20 | 17 | 5 | 2 | 25 | 5 | 8 | 20 | 27 | 15 | 22 | 16 | 0 | 2 | 5 | 25 | 8 | 84 | 57 | 47 |
| 20 | 21 | 11 | 3 | 26 | 6 | 9 | 30 | 28 | 16 | 22 | 19 | 46 | 3 | 6 | 26 | 9 | 85 | 58 | 48 |
| 20 | 26 | 19 | 4 | 27 | 7 | 11 | 7 | 29 | 17 | 22 | 23 | 25 | 4 | 7 | 27 | 10 | 86 | 59 | 49 |
| 20 | 30 | 28 | 5 | 28 | 8 | 12 | 28 | 1 | 17 | 22 | 27 | 23 | 5 | 8 | 28 | 11 | 87 | 60 | 50 |
| 20 | 35 | 31 | 6 | 29 | 9 | 13 | 20 | 3 | 18 | 22 | 31 | 8 | 6 | 9 | 29 | 12 | 88 | 61 | 51 |
| 20 | 37 | 27 | 7 | 3 | 10 | 14 | 30 | 4 | 19 | 22 | 34 | 54 | 7 | 10 | 30 | 13 | 89 | 62 | 52 |
| 20 | 42 | 41 | 8 | 4 | 11 | 16 | 0 | 4 | 20 | 22 | 38 | 40 | 8 | 11 | 31 | 14 | 90 | 63 | 53 |
| 20 | 46 | 44 | 9 | 5 | 12 | 17 | 8 | 5 | 21 | 22 | 42 | 25 | 9 | 12 | 32 | 15 | 91 | 64 | 54 |
| 20 | 50 | 46 | 10 | 6 | 13 | 18 | 15 | 6 | 22 | 22 | 46 | 9 | 10 | 13 | 33 | 16 | 92 | 65 | 55 |
| 20 | 54 | 51 | 11 | 7 | 14 | 19 | 22 | 7 | 23 | 22 | 49 | 53 | 11 | 14 | 34 | 17 | 93 | 66 | 56 |
| 20 | 57 | 52 | 12 | 8 | 15 | 20 | 27 | 7 | 24 | 22 | 53 | 37 | 12 | 15 | 35 | 18 | 94 | 67 | 57 |
| 21 | 1 | 52 | 13 | 10 | 16 | 21 | 30 | 8 | 25 | 22 | 57 | 30 | 13 | 16 | 36 | 19 | 95 | 68 | 58 |
| 21 | 5 | 53 | 14 | 11 | 17 | 22 | 32 | 9 | 26 | 22 | 0 | 1 | 14 | 17 | 37 | 20 | 96 | 69 | 59 |
| 21 | 9 | 54 | 15 | 12 | 18 | 23 | 32 | 10 | 27 | 22 | 4 | 45 | 15 | 18 | 38 | 21 | 97 | 70 | 60 |
| 21 | 12 | 55 | 16 | 13 | 19 | 24 | 32 | 11 | 27 | 22 | 8 | 28 | 16 | 19 | 39 | 22 | 98 | 71 | 61 |
| 21 | 17 | 50 | 17 | 14 | 20 | 25 | 30 | 12 | 27 | 22 | 12 | 10 | 17 | 20 | 40 | 23 | 99 | 72 | 62 |
| 21 | 21 | 47 | 18 | 15 | 21 | 26 | 28 | 13 | 28 | 22 | 16 | 52 | 18 | 21 | 41 | 24 | 100 | 73 | 63 |
| 21 | 26 | 44 | 19 | 16 | 22 | 27 | 24 | 13 | 29 | 22 | 19 | 34 | 19 | 22 | 42 | 25 | 1 | 74 | 64 |
| 21 | 30 | 40 | 20 | 17 | 23 | 28 | 20 | 14 | 30 | 22 | 23 | 14 | 20 | 23 | 43 | 26 | 2 | 75 | 65 |
| 21 | 35 | 36 | 21 | 18 | 24 | 29 | 15 | 15 | 31 | 22 | 26 | 38 | 21 | 24 | 44 | 27 | 3 | 76 | 66 |
| 21 | 37 | 30 | 22 | 19 | 25 | 0 | 12 | 16 | 32 | 22 | 30 | 37 | 22 | 25 | 45 | 28 | 4 | 77 | 67 |
| 21 | 41 | 28 | 23 | 20 | 26 | 1 | 5 | 17 | 33 | 22 | 34 | 18 | 23 | 26 | 46 | 29 | 5 | 78 | 68 |
| 21 | 46 | 18 | 24 | 21 | 27 | 1 | 55 | 17 | 34 | 22 | 37 | 58 | 24 | 27 | 47 | 30 | 6 | 79 | 69 |
| 21 | 50 | 9 | 25 | 22 | 28 | 2 | 47 | 18 | 35 | 22 | 41 | 28 | 25 | 28 | 48 | 31 | 7 | 80 | 70 |
| 21 | 55 | 1 | 26 | 23 | 29 | 3 | 38 | 19 | 36 | 22 | 45 | 0 | 26 | 29 | 49 | 32 | 8 | 81 | 71 |
| 21 | 59 | 48 | 27 | 24 | 30 | 4 | 28 | 20 | 37 | 22 | 49 | 45 | 27 | 30 | 50 | 33 | 9 | 82 | 72 |
| 22 | 0 | 39 | 28 | 25 | 31 | 5 | 18 | 21 | 38 | 22 | 53 | 28 | 28 | 31 | 51 | 34 | 10 | 83 | 73 |
| 22 | 4 | 30 | 29 | 26 | 32 | 6 | 9 | 22 | 39 | 22 | 57 | 23 | 29 | 32 | 52 | 35 | 11 | 84 | 74 |
| 22 | 8 | 21 | 30 | 27 | 33 | 7 | 0 | 23 | 40 | 22 | 0 | 18 | 30 | 33 | 53 | 36 | 12 | 85 | 75 |
| 22 | 12 | 12 | 31 | 28 | 34 | 8 | 50 | 24 | 41 | 22 | 4 | 9 | 31 | 34 | 54 | 37 | 13 | 86 | 76 |

DR. ROOKE'S

ORIENTAL PILLS & SOLAR ELIXIR.

THESE WELL-KNOWN FAMILY MEDICINES have had a continually increasing sale throughout the United Kingdom and the British Colonies since their introduction in 1836, and are especially noted for their **STRENGTHENING** and **RESTORATIVE** Properties. Hence their invariable success in the **RELIEF** and **CURE** of

INDIGESTION,
LIVER COMPLAINTS,
ASTHMA,
BRONCHITIS,

PULMONARY CONSUMPTION,
RHEUMATISM,
GOUT, SCROFULA,
GENERAL DEBILITY,

And all Diseases of the **NERVOUS SYSTEM**,

Whether arising from a sedentary mode of life, unhealthy occupation, insubrious climate, or other cause whatsoever.

The **ORIENTAL PILLS** are sold in Boxes at 1s. 1½d. and 4s. 6d. each.

The **SOLAR ELIXIR** in Bottles at 4s. 6d. and 11s. each.

Both to be obtained of all Chemists and Patent Medicine Vendors,

DR. ROOKE'S ANTI-LANCET.

All who wish to preserve health and thus prolong life, should read Dr. Rook's "**ANTI-LANCET, or HANDY GUIDE TO DOMESTIC MEDICINE**," which contains 172 pages, and is replete with anecdotes, sketches, biographical matter, portraits of eminent men, etc.

It may be obtained **GRATIS** of any Chemist, or **POST FREE** from Dr. Rook, Scarborough, England.

Concerning this book the late eminent Author, **SHERIDAN KNOWLES**, observed:—

"It will be an incalculable boon to every person who can read and think."

CROSBY'S

BALSAMIC

COUGH ELIXIR

Is the leading Medicine of the day, and is specially recommended by several eminent Physicians. It has been used with the most signal success for Asthma, Bronchitis, Consumption, Coughs, Influenza, Consumptive Night-Sweats, Spitting of Blood, Shortness of Breath, and all Affections of the Throat and Chest.

Sold in Bottles at 1s. 6d., 4s. 6d., and 11s. each, by all respectable Chemists, and Wholesale by **JAMES M. CROSBY**, Chemist, Scarborough.

Invalids should read Crosby's Prize Treatise on "**DISEASES OF THE LUNGS AND AIR VESICLES**," a copy of which can be had **Gratis** of all Chemists,

CROSBY'S

BALSAMIC

COUGH ELIXIR.

CROSBY'S BALSAMIC COUGH ELIXIR

Opiates, Narcotics, and Squills, are too often invoked to give relief in Coughs, Colds, and all Pulmonary Diseases. Instead of such false remedies, which yield momentary relief at the expense of enfeebling the digestive organs, and thus increase that debility which is the root of the malady, modern science points to **CROSBY'S BALSAMIC COUGH ELIXIR** as the true remedy.

CROSBY'S BALSAMIC COUGH ELIXIR

DR. ROOKE'S TESTIMONIAL.

DR. ROOKE, Scarborough, Author of the "Anti-Lancet," says: "I have repeatedly observed how very rapidly and invariably it cures Cough, Pain, and Irritation of the Chest in cases of Pulmonary Consumption; and I can, with the greatest confidence, recommend it as the most valuable adjunct to an otherwise strengthening treatment of this disease."

CROSBY'S BALSAMIC COUGH ELIXIR

CLERGYMEN, SINGERS, and PUBLIC SPEAKERS will find it the most effectual safeguard against Hoarseness, Chronic Bronchitis, and all affections of the vocal organs.

CROSBY'S BALSAMIC COUGH ELIXIR

TRAVELLERS, SPORTSMEN, EMIGRANTS, and others, exposed to sudden changes of temperature, easterly winds, fog, wet clothing, &c., may, by a few timely doses of this medicine, ward off all unpleasant consequences.

CROSBY'S BALSAMIC COUGH ELIXIR

This medicine, which is free from opium and squills, not only cures the local irritation, but improves digestion and strengthens the constitution. Hence it is used with the most signal success in

**ASTHMA,
BRONCHITIS,
CONSUMPTION,
COUGHS AND COLDS,
INFLUENZA,**

**CONSUMPTIVE NIGHT
SWEATS,
DIFFICULTY OF BREATHING,
PAIN IN THE CHEST,
WINTER COUGH,**

And all Affections of the Throat and Chest.

CROSBY'S BALSAMIC COUGH ELIXIR

Is sold in bottles at 1s. 9d., 4s. 6d., and 11s. each, by all respectable Chemists, and wholesale by **JAS. M. CROSBY**, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Ask your Chemist for the New Edition (GRAYS) of Crosby's Free Treatise on "**DISEASES OF THE LUNGS AND AIR-PASSES**," containing full and plain instructions for the relief and cure of these diseases, or **POST FREE** from **JAS. M. CROSBY**, Chemist, Scarborough.

CROSBY'S BALSAMIC COUGH ELIXIR

Can be obtained of all Chemists.

